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(54) Title: ENGINEERING β-KETOACYL ACP SYNTHASE FOR NOVEL SUBSTRATE SPECIFICITY

(57) Abstract: Methods of altering substrate specificity of beta-ketoacyl-ACP synthase, and engineered beta-ketoacyl-ACP synthases so produced are provided. DNA sequences and constructs for expression of engineered beta-ketoacyl-ACP synthases, as well as the novel beta-ketoacyl-ACP synthases produced therefrom are also provided. Such DNA sequences may be used for expression of the engineered beta-ketoacyl-ACP synthases in host cells, particularly seed cells of oilseed crop plants, for the modification of fatty acid composition.

ENGINEERING β -KETOACYL ACP SYNTHASE FOR NOVEL SUBSTRATE SPECIFICITY

5 INTRODUCTION

This application claims the benefit of U.S. Provisional Application Number 60/138,308 filed June 9, 1999.

10 Technical Field

The present invention is directed to proteins, nucleic acid sequences and constructs, and methods related thereto.

Background

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Fatty acids are organic acids having a hydrocarbon chain of from about 4 to 24 carbons. Many different kinds of fatty acids are known which differ from each other in chain length, and in the presence, number and position of double bonds. In cells, fatty acids typically exist in covalently bound forms, the carboxyl portion being referred to as a fatty acyl group. The chain length and degree of saturation of these molecules is often depicted by the formula CX:Y, where "X" indicates number of carbons and "Y" indicates number of double bonds.

The production of fatty acids in plants begins in the plastid with the reaction between acetyl-CoA and malonyl-ACP to produce acetoacetyl-ACP catalyzed by the enzyme, \(\beta\text{-ketoacyl-ACP synthase III.}\) Elongation of acetyl-ACP to 16- and 18- carbon fatty acids involves the following cycle of reactions: condensation with a two-carbon unit from malonyl-ACP to form a \(\beta\text{-ketoacyl-ACP (\beta\text{-ketoacyl-ACP synthase)}\), reduction of the keto-function to an alcohol (\beta\text{-ketoacyl-ACP reductase)}\), dehydration to form an enoyl-ACP (\beta\text{-hydroxyacyl-ACP dehydrase)}\, and finally reduction of the enoyl-ACP to form the elongated saturated acyl-ACP (enoyl-ACP reductase). \(\beta\text{-ketoacyl-ACP synthase I, catalyzes elongation up to palmitoyl-ACP (C16:0)}\), whereas \(\beta\text{-ketoacyl-ACP synthase II catalyzes the final elongation to stearoyl-ACP (C18:0). The longest chain fatty acids produced by the FAS are typically 18 carbons long. Additional

biochemical steps in the cell produce specific fatty acid constituents, for example through desaturation and elongation.

 β -ketoacyl synthases, condensing enzymes, comprise a structurally and functionally related family that play critical roles in the biosynthesis of a variety of natural products, including fatty acids, and the polyketide precursors leading to antibiotics, toxins, and other secondary metabolites. β -ketoacyl synthases catalyze carbon-carbon bond forming reactions by condenisng a variety of acyl chain precursors with an elongating carbon source, usually malonyl or methyl malonyl moieties, that are covalently attached through a thioester linkage to an acyl carrier protein. Condensing enzymes can be part of multienzyme complexes, domains of large, multifunctional polypeptide chains as the mammalian fatty acid synthase, or single enzymes as the β -ketoacyl synthases in plants and most bacteria.

Condensing enzymes have been identified with properties subject to exploitation in the areas of plant oil modification, polyketide engineering, and ultimately design anti-cancer and anti-tuberculosis agents. One of the molecular targets of isoniazid, which is widely used in the treatment of tuberculosis, is KAS. Cerulinin, a mycotoxin produced by the fungus Cephalosporium caerulens, acts as a potent inhibitor of KAS by covalent modification of the active cysteine thiol. Condensing enzymes from many other pathways and sources have all been shown to be inactivated by this antibiotic with the exception of the synthase from C. caerulens and KASIII, the isozyme responsible for the initial condensation of malonyl-ACP with acetyl-CoA in plant and bacterial fatty acid biosynthesis. Inhibition of the KAS domain of fatty acid synthase by cerulinin is selectively cytotoxic to certain cancer cells.

SUMMARY OF THE INVENTION

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The present invention is directed to β-ketoacyl ACP synthase (KAS), and in particular to engineered KAS polypeptides and polynucleotides encoding engineered KAS proteins having a modified substrate specificity with respect to the native (also referred to herein as wild-type) KAS protein. The engineered polypeptides and polynucleotides of the present invention include those derived from plant and bacterial sources.

In another aspect of the invention polynucleotides encoding engineered polypeptides, particularly, polynucleotides that encode a KAS protein with a modified substrate specificity with respect to the native KAS protein, are provided.

In a further aspect the invention relates to oligonucleotides derived from the engineered KAS proteins and oligonucleotides which include partial or complete engineered KAS encoding sequences.

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It is also an aspect of the present invention to provide recombinant DNA constructs which can be used for transcription or transcription and translation (expression) of an engineered KAS protein having an altered substrate specificity with respect to the native KAS protein. In particular, constructs are provided which are capable of transcription or transcription and translation in host cells. Particularly preferred constructs are those capable of transcription or transcription and translation in plant cells.

In another aspect of the present invention, methods are provided for production of engineered KAS proteins having a modified substrate specificity with respect to the native KAS in a host cell or progeny thereof. In particular, host cells are transformed or transfected with a DNA construct which can be used for transcription or transcription and translation of an engineered KAS. The recombinant cells which contain engineered KAS are also part of the present invention.

In a further aspect, the present invention relates to methods of using the engineered polynucleotide and polypeptide sequences of the present invention to modify the fatty acid composition in a host cell, as well as to modify the composition and/or structure of triglyceride molecules, particularly in seed oil of oilseed crops. Plant cells having such a modified triglyceride content are also contemplated herein.

The modified plants, seeds and oils obtained by the expression of the plant engineered KAS proteins are also considered part of the invention.

DESCRIPTION OF THE FIGURES

Figure 1 provides the coordinates of the crystal structure of the *E. coli* KAS protein. The first column provides the Type of atom (N=Nitrogen, O=oxygen, C=Carbon, CA= alpha carbon, CB=beta carbon, CG= gamma carbon, CD= delta carbon, CE= epsilon carbon, NZ= zeta nitrogen, NH= amino group), the second column provides the amino acid residue type (three letter abbreviation), the third column provides the subunit in which the amino acid is

located, the forth column provides the amino acid position in the protein sequence base don the mature unprocessed protein, columns seven through nine provide the x, y and z coordinates, respectively, of the three dimensional location of the respective atom in the crystal structure.

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Figure 2 provides the profile of the crystal structure of the *E. coli* KAS-cerulenin complex. The first column provides the Type of atom (N=Nitrogen, O=oxygen, C=Carbon, CA= alpha carbon, CB=beta carbon, CG= gamma carbon, CD= delta carbon, CE= epsilon carbon, NZ= zeta nitrogen, NH= amino group), the second column provides the amino acid residue type (three letter abbreviation), the third column provides the subunit in which the amino acid is located, the forth column provides the amino acid position in the protein sequence base don the mature unprocessed protein, columns seven through nine provide the x, y and z coordinates, respectively, of the three dimensional location of the respective atom in the crystal structure.

Figure 3 provides the effects of KAS II mutations on the fatty acid composition of E.

15 coli.

Figure 4 shows that mutations I108F, I108L and A193M all cause significant reduction in the activity of KAS II on 8:0-ACP as compared to 6:0-ACP (38, 31 and 12 fold reductions respectively), without significantly reducing the activity on 6:0-ACP.

Figure 5 shows that the combined mutations at I108 and A193 have the effect of reducing the activity of KAS II on 6:0-ACP substrates.

Figure 6 shows that the combined effect of two or more mutations had a greater effect on the activity with acyl-ACPs 8:0 and longer (14:0) substrates.

Figure 7 shows the complete list of mutations that were generated.

Figure 8 provides the structure of the Cpu KAS I homodimer

Figure 9 provides the structure of the Cpu KAS IV homodimer

Figure 10 provides the structure of the Cpu KAS I/ Cpu KAS IV heterodimer.

Figure 11 provides the sequence differences in the hydrophobic pocket of the E. coli KASII and C. pu KASIV.

Figure 12 provides an amino acid sequence alignment of KAS protein sequences from plant (Arabidopsis, Brassica, Cuphea hookeriana and pullcherima, Hordeum, Riccinus), bacterial (E. coli, streptococcus, tuberculosis), mammalian (rat, mouse) and others (C.elegans).

Figure 13 provides a bar graph representing the results of fatty acid analysis of seeds from transformed *Arabidopsis* lines containing pCGN11058, pCGN11062, pCGN11041, or nontransformed control lines (AT002-44). For each line, bars represent, from left to right, C12:0, C14:0, C16:0, C16:1, C18:0, C18:1 (delta 9), C18:1 (delta 11), C18:2, C18:3, C20:0, C20:1 (delta 11), C20:1 (delta 13), C20:2, C20:3, C22:0, C22:1, C22:2, C22:3, C24:0, and C24:1 fatty acids.

Figure 14 provides the nucleotide sequence of the plastid targeting sequence from Cuphea hookeriana KASII-7.

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DETAILED DESCRIPTION OF THE INVENTION

In accordance with the subject invention, engineered nucleotide sequences are provided which are capable of coding sequences of amino acids, such as, a protein, polypeptide or peptide. The engineered nucleotide sequences encode β-ketoacyl-ACP synthase (KAS) proteins with a modified substrate specificity compared to the native KAS protein (also referred to herein as the wild-type KAS protein) under enzyme reaction conditions. Such sequences are referred to herein as engineered β-ketoacyl-ACP synthase (also referred to as engineered KAS) proteins. The engineered nucleic acid sequences find use in the preparation of constructs to direct their expression in a host cell. Furthermore, the engineered nucleic acid sequences find use in the preparation of plant expression constructs to alter the fatty acid composition of a plant cell. By "enzyme reactive conditions" is meant that any necessary conditions are available in an environment (for example, such factors as temperature, pH, lack of inhibiting substances) which will permit the enzyme to function.

An engineered β-ketoacyl-ACP synthase nucleic acid sequence of this invention includes any nucleic acid sequence coding a β-ketoacyl-ACP synthase having altered substrate specificity relative to the native KAS in a host cell, includign but not limited to, *in vivo*, or in a cell-like environment, for example, *in vitro*. By altered, or modified, substrate specificity is meant an alteration in the acyl-ACP substrates elongated by the KAS enzyme or an alteration in the elongator molecule used by the KAS to elongate the acyl-ACP relative to the native or unaltered KAS protein. An alteration in the acyl-ACP substrate elongated by the KAS enzymes includes, but is not limited to, elongation of an acyl-ACP substrate not elongated by the wild-type KAS, the inability to elongate an acyl-ACP substrate elongated by

the wild-type KAS, and a preference for elongating acyl-ACP substrates not normally preferred by the wild-type KAS. An alteration in the elongator molecule used by the engineered KAS for the elongation of the acyl-ACP substrate includes, but is not limited to, methyl-malonyl ACP for the production of branched chain fatty acids.

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A first aspect of the present invention relates to engineered β-ketoacyl-ACP synthase polypeptides. In particular, engineered KAS II polypeptides are provided. Preferred peptides include those found in the hydrophobic fatty acid/cerulenin binding pocket of the KAS protein. Such polypeptides include the engineered polypeptides set forth in the Sequence Listing, as well as polypeptides and fragments thereof, particularly those polypeptides which exhibit a modified substrate specificity with respect to the wild-type KAS polypeptide. Particularly preferred polypeptides include those having engineered amino acid residues 105 to 120, 130-140, 190-200 and 340-400. Most preferred polypeptides include those having engineered amino acid residues I108A, I108F, I108G, I108L, L111A, I114A, F133A, V134A, V134G, I138A, I138G, A162G, A193G, A193I, A193M, L197A, F202L, F202I, F202G, L342A, and L342G. Amino acid positions, as used herein, refer to the amino acid residue position in the active or processed protein.

Engineered β -ketoacyl-ACP synthases can be prepared by random (via chemical mutagenesis or DNA shuffling) or specific mutagenesis of a β -ketoacyl-ACP synthase encoding sequence to provide for one or more amino acid substitutions in the translated amino acid sequence. Alternatively, an engineered β -ketoacyl-ACP synthase can be prepared by domain swapping between related β -ketoacyl-ACP synthases, wherein extensive regions of the native β -ketoacyl-ACP synthase encoding sequence are replaced with the corresponding region from a different β -ketoacyl-ACP synthase.

Altered substrate specificities of an engineered β -ketoacyl-ACP synthase can be reflected by the elongation of an acyl-ACP substrates of particular chain length fatty acyl-ACP groups which are not elongated by the native β -ketoacyl-ACP synthase enzyme. In addition, altered substrate specificities can be reflected by the in ability to elongate an acyl-ACP substrate of particular chain length fatty acyl-ACP groups which are not normally preferred by the native β -ketoacyl-ACP synthase enzyme. The newly recognized acyl-ACP substrate can differ from native substrates of the enzyme in various ways, such as by having a shorter or longer carbon chain length (usually reflected by the addition or deletion of one or more 2-carbon units), as well as by degrees of unsaturation.

Another aspect of the present invention relates to engineered β -ketoacyl-ACP synthase polynucleotides. In particular, engineered β -ketoacyl-ACP synthase II polynucleotides are provided. The polynucleotide sequences of the present invention include engineered polynucleotides that encode the polypeptides of the invention having a deduced amino acid sequence selected from the group of sequences set forth in the Sequence Listing.

The invention provides a polynucleotide sequence identical over its entire length to each coding sequence as set forth in the Sequence Listing. The invention also provides the coding sequence for the mature polypeptide or a fragment thereof, as well as the coding sequence for the mature engineered polypeptide or a fragment thereof in a reading frame with other coding sequences, such as those encoding a leader or secretory sequence, a pre-, pro-, or prepro- protein sequence. The polynucleotide can also include non-coding sequences, including for example, but not limited to, non-coding 5' and 3' sequences, such as the transcribed, untranslated sequences, termination signals, ribosome binding sites, sequences that stabilize mRNA, introns, polyadenylation signals, and additional coding sequence that encodes additional amino acids. For example, a marker sequence can be included to facilitate the purification of the fused polypeptide. Polynucleotides of the present invention also include polynucleotides comprising a structural gene and the naturally associated sequences that control gene expression.

As described herein, analysis of the KAS II/cerulinin crystal structure complex is performed using modeling software to produce a profile of the complex, as well as the KAS II protein alone. Based on comparisons of the two profiles, amino acid residues are identified, which when mutagenized, alter the fatty acyl substrate specificities. As demonstrated herein, engineering of the nucleic acid sequence to modify the amino acid sequence in particular regions of the KAS protein effectively modify the substrate specificity of the engineered KAS. Particular ranges for the engineering of the protein include amino acid residues 105 to 120, 130-140, 190-200 and 340-345. Particularly, engineering of residues 108, 111, 114, 133, 193 and 197 can alter the length of the fatty acids synthesized by the engineered KAS II protein. More particularly, engineering of residues 108, 111, 114, 133, 193 and 197 with variously sized hydrophobic residues will alter the length of the fatty acids synthesized by the engineered KAS II protein. Furthermore, engineering the amino acid residue at position 400 can also have an effect on the substrate specificity.

As demonstrated more fully in the following examples, the acyl-ACP substrate specificity of b-ketoacyl-ACP synthases may be modified by various amino acid changes to the protein sequence, such as amino acid substitutions, insertions or deletions in the mature protein portion of the b-ketoacyl-ACP synthases. Modified substrate specificity can be detected by expression of the engineered b-ketoacyl-ACP synthase s in *E. coli* and assaying to detect enzyme activity or by using purified protein in *in vitro* assays.

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Modified substrate specificity can be indicted by a shift in acyl-ACP substrate preference such that the engineered b-ketoacyl-ACP synthase is newly capable of utilizing a substrate not recognized by the native b-ketoacyl-ACP synthase. The newly recognized substrate can vary from substrates of the native enzyme by carbon chain length and/or degree of saturation of the fatty acyl portion of the substrate. Additionally, modified substrate specificity can be reflected by a shift in the relative b-ketoacyl-ACP synthase activity on two or more substrates of the native b-ketoacyl-ACP synthase such that an engineered b-ketoacyl-ACP synthase exhibits a different order of preference for the acyl-ACP substrates.

Furthermore, provided herein are KAS proteins with an altered elongator molecule preference. For example, by widening the hydrophobic fatty acid binding different elongator molecules, other than Malonyl-ACP, can be utilized by the KAS protein. For example Methyl-malonyl-ACP can be utilized by the engineered KAS resulting in the synthesis of branched chained fatty acid. The mutations that lengthen the pocket may to some degree also widen it, in addition mutations A193G, I108G, L342A or G, V134A or G,F202L,I or G may well cause widening of the pocket sufficiently to allow Methyl-malonyl-ACP to be accepted as an elongator.

As described in more detail herein, alterations in the nucleic acid sequence of the *E. coli* KAS II, particularly, I108F, I108L, A193I, A193M, as well as combinations thereof, are prepared for the production of shorter chain length fatty acids. Furthermore, alterations of I108A, L111A, I114A, F133A, L197A, and combinations thereof, are prepared for increasing the length of fatty acids produced by the host cell.

Thus, as the result of modifications to the substrate specificity of b-ketoacyl-ACP synthases, it can be seen that the relative amounts of the fatty acids produced in a cell where various substrates are available for hydrolysis may be altered. Furthermore, molecules which are formed from available free fatty acids, such as plant seed triglycerides, may also be altered

as a result of expression of engineered b-ketoacyl-ACP synthase s having altered substrate specificities.

It is anticipated that the ranges of mutations provided herein can also be engineered in plant KAS proteins as well as to other polyketide synthases. Such plant KAS proteins are known in the art, and are described for example in PCT Publication WO 98/46776, and in U.S. Patent Number 5,475,099, the entireties of which are incorporated herein by reference.

Plant Constructs and Methods of Use

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Of particular interest is the use of the nucleotide sequences, or polynucleotides, in recombinant DNA constructs to direct the transcription or transcription and translation (expression) of the engineered KAS sequences of the present invention in a host plant cell. The expression constructs generally comprise a promoter functional in a host plant cell operably linked to a nucleic acid sequence encoding a engineered KAS of the present invention and a transcriptional termination region functional in a host plant cell.

Those skilled in the art will recognize that there are a number of promoters which are functional in plant cells, and have been described in the literature. Chloroplast and plastid specific promoters, chloroplast or plastid functional promoters, and chloroplast or plastid operable promoters are also envisioned.

One set of promoters are constitutive promoters such as the CaMV35S or FMV35S promoters that yield high levels of expression in most plant organs. Enhanced or duplicated versions of the CaMV35S and FMV35S promoters are useful in the practice of this invention (Odell, et al. (1985) Nature 313:810-812; Rogers, U.S. Patent Number 5,378, 619). In addition, it may also be preferred to bring about expression of the engineered KAS in specific tissues of the plant, such as leaf, stem, root, tuber, seed, fruit, etc., and the promoter chosen should have the desired tissue and developmental specificity.

Of particular interest is the expression of the nucleic acid sequences of the present invention from transcription initiation regions which are preferentially expressed in a plant seed tissue. Examples of such seed preferential transcription initiation sequences include those sequences derived from sequences encoding plant storage protein genes or from genes involved in fatty acid biosynthesis in oilseeds. Examples of such promoters include the 5' regulatory regions from such genes as napin (Kridl et al., Seed Sci. Res. 1:209:219 (1991)).

phaseolin, zein, soybean trypsin inhibitor, ACP, stearoyl-ACP desaturase, soybean α ' subunit of β -conglycinin (soy 7s, (Chen *et al.*, *Proc. Natl. Acad. Sci.*, 83:8560-8564 (1986))) and oleosin.

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It may be advantageous to direct the localization of proteins to a particular subcellular compartment, for example, to the mitochondrion, endoplasmic reticulum, vacuoles, chloroplast or other plastidic compartment. For example, where the genes of interest of the present invention will be targeted to plastids, such as chloroplasts, for expression, the constructs will also employ the use of sequences to direct the gene to the plastid. Such sequences are referred to herein as chloroplast transit peptides (CTP) or plastid transit peptides (PTP). In this manner, where the protein of interest is not directly inserted into the plastid, the expression construct will additionally contain a gene encoding a transit peptide to direct the protein of interest to the plastid. The chloroplast transit peptides may be derived from the gene of interest, or may be derived from a heterologous sequence having a CTP. Such transit peptides are known in the art. See, for example, Von Heijne et al. (1991) Plant Mol. Biol. Rep. 9:104-126; Clark et al. (1989) J. Biol. Chem. 264:17544-17550; della-Cioppa et al. (1987) Plant Physiol. 84:965-968; Romer et al. (1993) Biochem. Biophys. Res Commun. 196:1414-1421; and, Shah et al. (1986) Science 233:478-481. Additional transit peptides for the translocation of the engineered KAS protein to the endoplasmic reticulum (ER), or vacuole may also find use in the constructs of the present invention.

Depending upon the intended use, additional constructs can be employed containing the nucleic acid sequence which provides for the suppression of the host cell's endogenous KAS protein. Where antisense inhibition of a host cells native KAS protein is desired, the entire wild-type KAS sequence is not required.

The skilled artisan will recognize that there are various methods for the inhibition of expression of endogenous sequences in a host cell. Such methods include, but are not limited to antisense suppression (Smith, et al. (1988) Nature 334:724-726), co-suppression (Napoli, et al. (1989) Plant Cell 2:279-289), ribozymes (PCT Publication WO 97/10328), and combinations of sense and antisense Waterhouse, et al. (1998) Proc. Natl. Acad. Sci. USA 95:13959-13964. Methods for the suppression of endogenous sequences in a host cell typically employ the transcription or transcription and translation of at least a portion of the sequence to be suppressed. Such sequences may be homologous to coding as well as noncoding regions of the endogenous sequence.

Regulatory transcript termination regions may be provided in plant expression constructs of this invention as well. Transcript termination regions may be provided by the DNA sequence encoding the wild-type KAS or a convenient transcription termination region derived from a different gene source, for example, the transcript termination region which is naturally associated with the transcript initiation region. The skilled artisan will recognize that any convenient transcript termination region which is capable of terminating transcription in a plant cell may be employed in the constructs of the present invention.

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Alternatively, constructs may be prepared to direct the expression of the engineered KAS sequences directly from the host plant cell plastid. Such constructs and methods are known in the art and are generally described, for example, in Svab, et al. (1990) Proc. Natl. Acad. Sci. USA 87:8526-8530 and Svab and Maliga (1993) Proc. Natl. Acad. Sci. USA 90:913-917 and in U.S. Patent Number 5,693,507.

A plant cell, tissue, organ, or plant into which the recombinant DNA constructs containing the expression constructs have been introduced is considered transformed, transfected, or transgenic. A transgenic or transformed cell or plant also includes progeny of the cell or plant and progeny produced from a breeding program employing such a transgenic plant as a parent in a cross and exhibiting an altered phenotype resulting from the presence of a engineered KAS nucleic acid sequence.

Plant expression or transcription constructs having an engineered KAS as the DNA sequence of interest for increased or decreased expression thereof may be employed with a wide variety of plant life, particularly, plant life involved in the production of vegetable oils for edible and industrial uses. Most especially preferred are temperate oilseed crops. Plants of interest include, but are not limited to, rapeseed (Canola and High Erucic Acid varieties), sunflower, safflower, cotton, soybean, peanut, coconut and oil palms, and corn. Depending on the method for introducing the recombinant constructs into the host cell, other DNA sequences may be required. Importantly, this invention is applicable to dicotyledyons and monocotyledons species alike and will be readily applicable to new and/or improved transformation and regulation techniques.

Of particular interest, is the use of engineered KAS constructs in plants which have been genetically engineered to produce a particular fatty acid in the plant seed oil, where TAG in the seeds of nonengineered plants of the engineered species, do not naturally contain that particular fatty acid.

The engineered KAS constructs of the present invention can also be used to provide a means for the production of plants having resistance to plant pathogens. Engineered KAS constructs providing for an increased production of particular fatty acids involved in the biosynthesis of pathogen response signals or inhibitors. For example, engineered KAS constructs providing for the increased production of C:8 fatty acids allows for the production of transgenic plants having an increased tolerance to fungal pathogens.

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It is contemplated that the gene sequences may be synthesized, either completely or in part, especially where it is desirable to provide plant-preferred sequences. Thus, all or a portion of the desired structural gene (that portion of the gene which encodes the engineered protein) may be synthesized using codons preferred by a selected host. Host-preferred codons may be determined, for example, from the codons used most frequently in the proteins expressed in a desired host species.

Once the desired engineered KAS nucleic acid sequence is obtained, it may be manipulated in a variety of ways. Where the sequence involves non-coding flanking regions, the flanking regions may be subjected to resection, mutagenesis, etc. Thus, transitions, transversions, deletions, and insertions may be performed on the naturally occurring sequence. In addition, all or part of the sequence may be synthesized. In the structural gene, one or more codons may be modified to provide for a modified amino acid sequence, or one or more codon mutations may be introduced to provide for a convenient restriction site or other purpose involved with construction or expression. The structural gene may be further modified by employing synthetic adapters, linkers to introduce one or more convenient restriction sites, or the like.

The nucleic acid or amino acid sequences encoding an engineered KAS of this invention may be combined with other non-native, or "heterologous", sequences in a variety of ways. By "heterologous" sequences is meant any sequence which is not naturally found joined to the engineered KAS, including, for example, combinations of nucleic acid sequences from the same plant which are not naturally found joined together.

The DNA sequence encoding an engineered KAS of this invention may be employed in conjunction with all or part of the gene sequences normally associated with the wild-type KAS. In its component parts, a DNA sequence encoding engineered KAS is combined in a DNA construct having, in the 5' to 3' direction of transcription, a transcription initiation

control region capable of promoting transcription and translation in a host cell, the DNA sequence encoding engineered KAS and a transcription and translation termination region.

Potential host cells include both prokaryotic and eukaryotic cells. A host cell may be unicellular or found in a multicellular differentiated or undifferentiated organism depending upon the intended use. Cells of this invention may be distinguished by having an engineered KAS foreign to the wild-type cell present therein, for example, by having a recombinant nucleic acid construct encoding an engineered KAS therein.

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The methods used for the transformation of the host plant cell are not critical to the present invention. The transformation of the plant is preferably permanent, i.e. by integration of the introduced expression constructs into the host plant genome, so that the introduced constructs are passed onto successive plant generations. The skilled artisan will recognize that a wide variety of transformation techniques exist in the art, and new techniques are continually becoming available. Any technique that is suitable for the target host plant can be employed within the scope of the present invention. For example, the constructs can be introduced in a variety of forms including, but not limited to as a strand of DNA, in a plasmid, or in an artificial chromosome. The introduction of the constructs into the target plant cells can be accomplished by a variety of techniques, including, but not limited to calcium-phosphate-DNA co-precipitation, electroporation, microinjection, Agrobacterium infection, liposomes or microprojectile transformation. The skilled artisan can refer to the literature for details and select suitable techniques for use in the methods of the present invention.

Normally, included with the DNA construct will be a structural gene having the necessary regulatory regions for expression in a host and providing for selection of transformant cells. The gene may provide for resistance to a cytotoxic agent, e.g. antibiotic, heavy metal, toxin, etc., complementation providing prototrophy to an auxotrophic host, viral immunity or the like. Depending upon the number of different host species the expression construct or components thereof are introduced, one or more markers may be employed, where different conditions for selection are used for the different hosts.

Where Agrobacterium is used for plant cell transformation, a vector may be used which may be introduced into the Agrobacterium host for homologous recombination with T-DNA or the Ti- or Ri-plasmid present in the Agrobacterium host. The Ti- or Ri-plasmid containing the T-DNA for recombination may be armed (capable of causing gall formation)

or disarmed (incapable of causing gall formation), the latter being permissible, so long as the vir genes are present in the transformed Agrobacterium host. The armed plasmid can give a mixture of normal plant cells and gall.

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In some instances where Agrobacterium is used as the vehicle for transforming host plant cells, the expression or transcription construct bordered by the T-DNA border region(s) will be inserted into a broad host range vector capable of replication in E. coli and Agrobacterium, there being broad host range vectors described in the literature. Commonly used is pRK2 or derivatives thereof. See, for example, Ditta, et al., (Proc. Nat. Acad. Sci., U.S.A. (1980) 77:7347-7351) and EPA 0 120 515, which are incorporated herein by reference. Alternatively, one may insert the sequences to be expressed in plant cells into a vector containing separate replication sequences, one of which stabilizes the vector in E. coli, and the other in Agrobacterium. See, for example, McBride and Summerfelt (Plant Mol. Biol. (1990) 14:269-276), wherein the pRiHRI (Jouanin, et al., Mol. Gen. Genet. (1985) 201:370-374) origin of replication is utilized and provides for added stability of the plant expression vectors in host Agrobacterium cells.

Included with the expression construct and the T-DNA will be one or more markers, which allow for selection of transformed Agrobacterium and transformed plant cells. A number of markers have been developed for use with plant cells, such as resistance to chloramphenicol, kanamycin, the aminoglycoside G418, hygromycin, or the like. The particular marker employed is not essential to this invention, one or another marker being preferred depending on the particular host and the manner of construction.

For transformation of plant cells using Agrobacterium, explants may be combined and incubated with the transformed Agrobacterium for sufficient time for transformation, the bacteria killed, and the plant cells cultured in an appropriate selective medium. Once callus forms, shoot formation can be encouraged by employing the appropriate plant hormones in accordance with known methods and the shoots transferred to rooting medium for regeneration of plants. The plants may then be grown to seed and the seed used to establish repetitive generations and for isolation of vegetable oils.

There are several possible ways to obtain the plant cells of this invention which contain multiple expression constructs. Any means for producing a plant comprising a construct having a DNA sequence encoding the engineered KAS of the present invention, and at least one other construct having another DNA sequence encoding an enzyme are

encompassed by the present invention. For example, the expression construct can be used to transform a plant at the same time as the second construct either by inclusion of both expression constructs in a single transformation vector or by using separate vectors, each of which express desired genes. The second construct can be introduced into a plant which has already been transformed with the engineered KAS expression construct, or alternatively, transformed plants, one expressing the engineered KAS construct and one expressing the second construct, can be crossed to bring the constructs together in the same plant.

Other Constructs and Methods of Use

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The invention also relates to vectors that include a polynucleotide or polynucleotides of the invention, host cells that are genetically engineered with vectors of the invention and the production of polypeptides of the invention by recombinant techniques. Cell free translation systems can be employed to produce such protein using RNAs derived from the DNA constructs of the invention.

For recombinant production, host cells can be genetically engineered to incorporate expression systems or portions thereof or polynucleotides of the present invention.

Introduction of a polynucleotide into a host cell can be effected by methods described in many standard laboratory manuals, such as Davis et al., Basic Methods in Molecular Biology, (1986) and Sambrook et al, Molecular Cloning: A Laboratory Manual, 2nd Edition, Cold Spring Harbor Laboratory Press, Cold Spring Harbor NY (1989). Such methods include, but are not limited to, calcium phosphate transfection, DEAE dextran mediated transfection, transvection, microinjection, cationic lipid-mediated transfection, electroporation, transduction, scrape loading ballistic introduction and infection.

Representative examples of appropriate hosts include bacterial cells, such as streptococci, staphylococci, enterococci, *E. coli*, streptomyces, and *Bacillus subtilis* cells; fungal cells, such as yeast cells and *Aspergillus* cells; insect cells, such as *Drosophila* S2 and *Spodoptera* Sf9 cells; animal cells such as CHO, COS, HeLa, C127, 3T3, BHK, 293 and Bowes melanoma cells; and plant cells as described above.

A variety of expression systems can be used to produce the polypeptides of the invention. Such vectors include, but are not limited to, chromosomal, episomal, and virus derived vectors, for example vectors from bacterial plasmids, bacteriophage, transposons, yeast episomes, insertion elements, yeast chromosomal elements, viruses such as

baculoviruses, papova viruses, such as SB40, vaccinia viruses, adenoviruses, fowl pox viruses, pseudorabies viruses and retroviruses, and vectors derived from combinations of such viruses, such as those derived from plasmid and bacteriophage genetic elements, such as cosmids and phagemids. The expression system constructs may contain control regions that regulate as well as engender expression. Generally, any system or vector which is suitable to maintain, propagate or express polynucleotides and/or to express a polypeptide in a host can be used for expression. The appropriate DNA sequence can be inserted into the chosen expression by any of a variety of well-known and routine techniques, such as, for example, those set forth in Sambrook et al, *Molecular Cloning, A Laboratory Manual*, (supra).

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Appropriate secretion signals, either homologous or heterologous, can be incorporated into the expressed polypeptide to allow the secretion of the protein into the lumen of the endoplasmic reticulum, the periplasmic space or the extracellular environment.

The polypeptides of the present invention can be recovered and purified from recombinant cell cultures by any of a number of well known methods, including, but not limited to, ammonium sulfate or ethanol precipitation, acid extraction, anion or cation exchange chromatography, phosphocellulose chromatography, hydrophobic interaction chromatography, affinity chromatography, hydroxylapatite chromatography, and lectin chromatography. It is most preferable to use high performance liquid chromatography (HPLC) for purification. Any of the well known techniques for protein refolding can be used to regenerate an active confirmation if the polypeptide is denatured during isolation and/or purification.

The engineered KAS polynucleotides and polypeptides of the present invention find use in a variety of applications.

The engineered KAS polynucleotides and polypeptides as well as the constructs containing such engineered KAS polynucleotides and polypeptides find use in the alteration of fatty acid composition. Furthermore, the engineered KAS polynucleotides and polypeptides of the present invention find use in the production of particular fatty acid components. For example, an engineered KAS having a preference for elongating 6, 8, 10, and 12 carbon acyl-ACP substrates can be used in the production of medium chain fatty acids. Such engineered KAS polynucleotides and polypeptides can also be used with additional sequences for the production of medium chain fatty acids, including, but not limited to, medium chain specific thioesterases (see for example USPN 5,512,482).

The present invention further provides methods for the engineering of polyketides and for the identification of molecules useful in cancer therapy, immunosuppressants, antiparasite, and antibiotic production.

Thus, the present invention permits the use of molecular design techniques to design, select and synthesize chemical entities and compounds, including inhibitory compounds, capable of binding to the active site or substrate binding site of KAS, in whole or in part.

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A first approach enabled by this invention, is to use the structure coordinates of KAS to design compounds that bind to the enzyme and alter the physical properties of the compounds in different ways, e.g., solubility. For example, this invention enables the design of compounds that act as competitive inhibitors of the KAS enzyme by binding to, all or a portion of, the active site of KAS. This invention also enables the design of compounds that act as uncompetitive inhibitors of the KAS enzyme. These inhibitors may bind to, all or a portion of, the substrate binding site of KAS already bound to its substrate and may be more potent and less non-specific than known competitive inhibitors that compete only for the KAS active site. Similarly, non-competitive inhibitors that bind to and inhibit KAS whether or not it is bound to another chemical entity may be designed using the structure coordinates of KAS of this invention. Additionally, reversible and irreversible inhibitors can also be designed.

A second design approach is to probe KAS with molecules composed of a variety of different chemical entities to determine optimal sites for interaction between candidate ICE inhibitors and the enzyme. For example, high resolution X-ray diffraction data collected from crystals saturated with solvent allows the determination of where each type of solvent molecule sticks. Small molecules that bind tightly to those sites can then be designed and synthesized and tested for their KAS inhibitor activity. Travis, J., Science, 262, p. 1374 (1993).

This invention also enables the development of compounds that can isomerize to short-lived reaction intermediates in the chemical reaction of a substrate or other compound that binds to KAS, with KAS. Thus, the time-dependent analysis of structural changes in KAS during its interaction with other molecules is enabled. The reaction intermediates of KAS can also be deduced from the reaction product in co-complex with KAS. Such information is useful to design improved analogues of known KAS inhibitors or to design novel classes of inhibitors based on the reaction intermediates of the KAS enzyme and KAS-

inhibitor co-complex. This provides a novel route for designing KAS inhibitors with both high specificity and stability.

Another approach made possible and enabled by this invention, is to screen computationally small molecule data bases for chemical entities or compounds that can bind in whole, or in part, to the KAS enzyme. In this screening, the quality of fit of such entities or compounds to the binding site may be judged either by shape complementarity or by estimated interaction energy. Meng, E. C. et al., J. Comp. Chem., 13, pp. 505-524 (1992).

The invention now being generally described, it will be more readily understood by reference to the following examples which are included for purposes of illustration only and are not intended to limit the present invention.

EXAMPLES

Example 1: Determination of the KAS II-Cerulenin Complex Structure

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The KASII-cerulenin complex was prepared as described previously (Edwards, et al. (1997) FEBS Lett. 402:62-66). Crystals of the complex were grown by the hanging drop method. Droplets consisting of equal amounts of protein solution (6 mg ml⁻¹, 21 protein, 0.3 MNaCl, 25 mMTris, pH 8.0, 5 mMimidazole, and 10% v/v glycerol) and reservoir solution were equilibrated against 26% w/v polyethylene glycol 8000 and 0.1% v/v 2-mercaptoethanol in water. Data from two crystals were collected at 298 K at the synchrotron in MAX-lab, beamline I711, in Lund. The data was processed with DENZO (Otwinowski (1993) Proceedings of the Collaborative Computating Project 4 Study Weekend: Data Collection and Processing (Sawyer, L., Isaacs, N., and Bailey, S.S., eds.) pp 56-62, SERC Daresbury Laboratory, Warrington) and programs from the Collaborative Computating Project 4 Suite (Collaborative Computating Project 4 (1994) Acta Crystallagr. Sect. D Biol. Crystallogr. 50:760-763) and the two data sets were scaled together in SCALA (Eavans, (1993) Proceedings of the Collaborative Computating Project 4 Study Weekend: Data Collection and Processing (Sawyer, L., Isaacs, N., and Bailey, S.S., eds.) pp 56-62, SERC Daresbury Laboratory, Warrington). The crystals are very radiation-sensitive, but cannot be frozen in a cryostream. Due to non-isomorphism, data of only two crystals could be merged. The crystals of the complex have space group P3,21 with similar cell dimensions as the native enzyme.

The coordinates of the native enzyme (Huang, et al. (1998) EMBO J. 17:1183-1191) were used to calculate initial electron density maps with SIGMAA (Read (1986) Acta Crystallogr. 42:140-149). All data were used in the refinement; no sigma cutoff was applied. After an initial cycle of positional refinement, the model was rebuilt and a model of cerulenin was included. Further cycles of refinement of the complex were carried out using the program REFMAC (Murshudov, et al. (1997) Acta Crystallagr. Sect. D Biol. Crystallogr 53:240-253) including a bulk solvent correction, interspersed with inspection and correction of the model using O (Jones, et al. (1991) Acta Crystallagr. Sect. A 47:100-119), OOPS (Kleywegt, et al. (1996) Acta Crystallagr. Sect. D Biol. Crystallogr 52:829-832), and PROCHECK (Laskowski, et al. (1993) J. Appl. Crystallogr. 26:282-291). Structure comparisons were performed using O (Jones, et al. (1991) supra) with default parameters.

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The complex of KASII from $E.\ coli$ with cerulenin crystallized in space group P3₁21 isomorphously with the native enzyme (Huang, et al.(1998) supra), and the crystal structure was determined to 2.65-Å resolution by difference Fourier methods. The final protein model after refinement (R-factor 5 0.213 and R_{rec} 5 0.270 with good stereochemistry) contains 411 out of the 412 residues of the subunit; no electron density for the N-terminal residue was found. The overall real-space correlation coefficient (Jones, et al. (1991) supra) is 0.92, and there is well defined electron density for the polypeptide chain except for some side chains on the molecular surface. The inhibitor molecule is well defined by the electron density.

However, there is weaker than average electron density for the amide group and no electron density for the last carbon atom of the hydrocarbon tail, indicating considerable flexibility for the terminal methyl group.

The overall structure of the KAS dimer is unchanged upon binding of cerulenin; the root mean square deviations for the 411 Ca atoms of the subunit is 0.23 Å between the two structures. These differences are mainly localized in the active site, in particular in the loop comprising residues 398–401. The main differences in structure between the native enzyme and the cerulenin complex are in the conformation of the side chains of Phe-400 (which was anticipated already from the native structure) and of Ile-108, which have completely new rotamer conformations, and in the positions of the side chains of Cys-163, His-340, and Leu-342, which also have moved substantially. These conformational changes provide access for cerulenin to the active site cysteine and open a hydrophobic pocket for the hydrophobic tail of the inhibitor. From the initial F_0 2 F_0 electron density map these structural changes could be

readily seen as well as the binding site for the inhibitor). Cerulenin is bound covalently through its C2 carbon atom to the Cys-163 Sγ atom. Its hydrocarbon tail fits in a hydrophobic pocket formed at the dimer interface. The structure of the adduct of cerulenin and cysteine, isolated by tryptic digestion of the cerulenin-fatty acid synthase complex, has been determined by NMR and mass spectroscopy (Funabashi, et al. (1989) J. Biochem.(Tokyo) 105:751-755). This study revealed that the inhibitor reacts at its C2-epoxide carbon with the SH group of cysteine and that cerulenin formed a hydroxylactam ring. The electron density observed in the KASII-cerulenin complex is not consistent with this structure. It was not possible to model bound cerulenin in the closed ring form but the open form of the inhibitor could readily be fitted to the electron density map. The hydroxylactam ring, which is formed preferably in protic solvents (Funabashi, et al. (1989) supra), is not present in the hydrophobic environment of the protein.

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In the KASII-cerulenin complex, the inhibitor amide carbonyl oxygen is within hydrogen bond distance to the Ne atoms of the side chains of His-340 and His-303, while the amide NH2 group does not make any close interactions. It is, however, not possible from the structure to exclude the opposite conformation and interactions for the amide group. The hydroxyl group at C3 forms a hydrogen bond to the main chain NH of Phe-400. The carbonyl oxygen at C4 does not form any polar interactions, in fact, it is located in a very hydrophobic pocket formed by side chains Phe-400, Phe-202, and Val-134 from the other subunit in the dimer. The binding site for the hydrophobic part of the inhibitor is also lined with hydrophobic residues: Ala-162, Gly-107, Leu-342, Phe-202, Leu-111, Ile-108, Ala-193, Gly-198; and from the second subunit in the dimer, Ile-138, Val-134, and Phe-133. The two double bonds with trans configuration give the hydrophobic tail a shape that fits to the hydrophobic groove once residue Ile-108 has changed rotamer. In comparison, binding of tetrahydrocerulenin would cost entropy, and as expected it shows more than 2 orders of magnitude less inhibitory activity (D'Agnolo, et al. (1973) Biochim. Biophys. Acta 326:155-156). The influence of the length of the hydrocarbon chain, maintaining the double bond positions, has been studied using fatty acid synthase from Saccharomyces cerevisiae (Morisaki, et al. (1993) J. Biol. Chem. 211:111-115). Cerulenin (12 carbons) had the highest inhibitory activity, with slightly decreasing binding strength upon increase in chain length. However, when increasing the length from 16 to 18 carbon atoms, the inhibition decreased by 2 orders of magnitude. The size of the hydrophobic pocket in KASII, which binds the

hydrocarbon tail of cerulenin, suggests that there is space for a longer hydrophobic tail only if the side chains of Leu-111 and of Phe-133 in the second subunit change their conformation. Thus, possible differences in the sensitivity of condensing enzymes toward cerulenin might be controlled by the size of this cavity.

The structure of the cerulenin complex can be considered to mimic the intermediate formed upon reaction of KAS with the acyl-ACP. In such a complex the hydrophobic cavity would harbor the hydrocarbon tail of the acyl intermediate. The acyl hydrophobic tails will not be restricted by two double bonds (as in the case of cerulenin), and this will allow longer acyl chains to be buried in this pocket. Inspection of the active site cavity suggests that it would not be possible to harbor a linear acyl chain longer than 14 carbon atoms without structural changes. Such conformational changes must occur since KASII is able to elongate 16:1 to 18:1 (Garwin, et al. (1980) J. Biol. Chem. 255:3263-3265).

Coordinates for the KAS II crystal structure as well as the KAS-cerulenin complex were produced and are presented in Figures 1 and 2 respectively.

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Example 2: Engineering KAS II Proteins

The structure of the *E.coli* KAS II-cerulenin complex was analyzed using the Swiss Pdb Viewer (SPV) modeling program, and by stereo viewing of printouts of the structure in different orientations. Using SPV each of the hydrophobic residues surrounding the bound cerulenin residue were changed to all the possible larger hydrophobic residues, and each of the rotamers for the mutant amino acids were examined for steric clashes (SPV rotamer score) with adjacent amino acids and the bound cerulenin molecule. The identified amino acids were targeted for mutagenesis for decreasing the fatty acid chain length specificity of the KAS II protein. The candidate chain length shortening mutations chosen were those that made the least steric clashes with neighboring amino acids while having the most clashes with the end 1 to 6 carbons of cerulenin.

The structure of the *E.coli* KAS II / cerulenin complex was studied as described above and the hydrophobic amino acid residues near the end of the cerulenin binding "pocket" were identified. These amino acids were identified for mutagenesis for the increase in fatty acid chain length recognition. The large hydrophobic residues positioned beyond the end of the

cerulenin potentially preventing longer fatty acids from occupying this pocket were chosen for mutagenesis to smaller (alanine) residues.

PCR site-directed mutagenesis was performed using the Quick-ChangeTM site-directed mutagenesis kit (Stratagene) following the manufacturers protocol. For the preparation of the specific mutations listed in Table 1, the following oligonucleotide primers were used in the reactions.

Table 1

	1108F Sense	5'-GTGCCGCAATTGGATCCGGGTTTGGCGGCCTCGGAC (SEQ ID NO:1)
10	Antisense	S' CTCCC+CCCCCCA++CCCCC++TCT++TCT++TCT++TC
		3 - GTCCGAGGCCGCAAACCCGGATCCAATTGCGGCAC (SEQ ID NO:2)
	1108L Ser	nee5'-GTGCCGCAATTCCCTCCCCCCTTTCCACCCCTTTCCA
	Anticar	nse5'-GTGCCGCAATTGGCTCCGGGCTTGGAGGCCTCGGACTGATCG (SEQ ID NO:3)
	Antisei	ise5'-CGATCAGTCCGAGGCCTCCAAGCCCGGAGCCAATTGCGGCAC (SEQ ID NO:4)
15	A193I Sense	SI COL COMPAGGGGGGG
13		5'-GCAGGTGGCGCCGAGAAAATCAGTACGCCGCTGGGC (SEQ ID NO:5)
	Antisen	se 5'-GCCCAGCGGCGTACTGATTTTCTCGGCGCCACCTGC (SEQ ID NO:6)
	A193M Sense	5'-GGTGGCGCAGAGAAATGAGTACTCCGCTGGGCGTTG(SEQ ID NO:7)
	Antisense	5'-CAACGCCCAGCGGAGTACTCATTTTCTCTGCGCCACC(SEQ ID NO:8)
20		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1108A, L111A,	, I114A
	Sense	5'-GCAATTGGCTCCGGGGCTGGCGGCGCCGGACTGGCCGAAG
	AAAACCACA	C(SEQ ID NO:9)
	Antisense	
25	ID NO:10)	5'-GTGTGGTTTTCTTCGGCCAGTCCGGCGCCGCCAGCCCCGG AGCCAATTGC (SEQ
	10 110.10)	
	L111A Sense	S' CCCATTCCCCCCCCCCCACTCATCATCATCATCATCATCA
	Antisense	5'-GGGATTGGCGGCCGGACTGATCGAAG(SEQ ID NO:11)
	Anusense	5'-CTTCGATCAGTCCGGCGCCCAATCCC(SEQ ID NO:12)
30	E122 A C	
30	F133A Sense	5'-GATCAGCCCATTCGCGGTACCGTCAACGATTGTG(SEQ ID NO:13)
	Antisense	5'-CACAATCGTTGACGGTACCGCGAATGGGCTGATC(SEQ ID NO:14)
	1197A Sense	5'-GAGAAAGCCAGTACTCCGGCGGCGTTGGTGG(SEQ ID NO:15)
	Antisense	5'-CCACCAACGCCCGCGGAGTACTGGCTTTCTC(SEQ ID NO:16)
35		1010(020 15 (10,10)

Example 3: Construct Preparation

40 3A. E. coli Expression Constructs

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A series of constructs are prepared to direct the expression of the engineered KAS sequences in E. coli.

A series of constructs are prepared to direct the expression of the various engineered KAS sequences in host plant cells.

The construct pCGN10440 contains the I108F mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10441 contains the I108L mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10442 contains the A193I mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

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The construct pCGN10443 contains the I108F, A193I mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10444 contains the I108L, A193I mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10445 contains the A193M mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10446 contains the I108F, A193M mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10447 contains the I108L, A193M mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10448 contains the L111A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10449 contains the F133A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10450 contains the L111A, F133A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10451 contains the I108A, L11A, I114A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10452 contains the F133A, L197A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10453 contains the I108A, L11A, I114A, F133A, L197A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10454 contains the L197A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

3B. Preparation of Plant Expression Constructs

A series of constructs are prepared to direct the expression of the engineered KAS sequences in plant host cells, both alone and in combination with additional sequences encoding proteins involved in fatty acid biosynthesis.

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A plasmid containing the napin cassette derived from pCGN3223 (described in USPN 5,639,790, the entirety of which is incorporated herein by reference) was modified to make it more useful for cloning large DNA fragments containing multiple restriction sites, and to allow the cloning of multiple napin fusion genes into plant binary transformation vectors. An adapter comprised of the self annealed oligonucleotide of sequence

CGCGATTTAAATGGCGCGCCCTGCAGGCGGCCGCCTGCAGGGCGCCCATTTAA

AT (SEQ ID NO:) was ligated into the cloning vector pBC SK+ (Stratagene) after digestion
with the restriction endonuclease BssHII to construct vector pCGN7765. Plamids
pCGN3223 and pCGN7765 were digested with NotI and ligated together. The resultant
vector, pCGN7770, contains the pCGN7765 backbone with the napin seed specific
expression cassette from pCGN3223.

A binary vector for plant transformation, pCGN5139, was constructed from pCGN1558 (McBride and Summerfelt, (1990) Plant Molecular Biology, 14:269-276). The polylinker of pCGN1558 was replaced as a HindIII/Asp718 fragment with a polylinker containing unique restriction endonuclease sites, AscI, PacI, XbaI, SwaI, BamHI, and NotI. The Asp718 and HindIII restriction endonuclease sites are retained in pCGN5139.

A binary vector, pCGN8642 was constructed to allow for the rapid cloning of various expression cassettes into the vector for use in plant transformation. The construct contains a multiple cloning region located between the right and left borders of the *Agrobacterium* transfer DNA. The construct also contains the Tn5 gene expressed from the 35S promoter between the multiple cloning site and the left border for selection of transformed plants on kanamycin.

A 354 bp BgIII fragment containing the Cuphea hookeriana KASII-7 plastid targeting sequence (Figure 14) (SEQ ID NO:) was cloned into the BamHI site of the various pQE30 constructs containing the E. coli KASII (FabF) wild type or mutant KAS sequences. The resultant chimeric KAS II targeting sequence/FabF encoding sequence were cloned as HindIII/SalI fragments into filled-in SalI/XhoI sites of the napin expression cassette,

pCGN7770. The resulting napin/KAS cassettes were cloned as *Not*I fragments into the *Not*I sites of various plant binary constructs as described below.

A napin cassette containing the coding sequence of the *Cuphea hookeriana* FatB2 protein (described in PCT Publication WO 98/46776, the entirety of which is incorporated herein by reference) was cloned as a *Not*I fragment into the *Not*I site of pCGN8642 to create pCGN11000.

A napin cassette containing the coding sequence of the *Garm FatA1* protein (described in PCT Publication WO 97/12047, the entirety of which is incorporated herein by reference) was cloned into the *NotI* site of pCGN8642 to create pCGN11003.

A napin cassette containing the native (wild-type) E. coli KAS II coding sequence was cloned into the NotI site of pCGN11003 to create pCGN11040.

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A napin cassette containing the native (wild-type) E. coli KAS II coding sequence was cloned into the NotI site of pCGN11003 to create pCGN11040.

A napin cassette containing the native (wild-type) E. coli KAS II coding sequence was cloned into the NotI site of pCGN8642 to create pCGN11041.

A napin cassette containing the native (wild-type) E. coli KAS II coding sequence was cloned into the NotI site of pCGN11000 to create pCGN11042.

A napin cassette containing the L111A KAS II mutant coding sequence was cloned into the *Not*I site of pCGN11003 to create pCGN11045.

A napin cassette containing the L111A KAS II mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11046.

A napin cassette containing the F133A KAS II mutant coding sequence was cloned into the *Not*I site of pCGN11003 to create pCGN11049.

A napin cassette containing the F133A KAS II mutant coding sequence was cloned into the *Not*I site of pCGN11003 to create pCGN11050.

A napin cassette containing the L111A, F133A KAS II double mutant coding sequence was cloned into the *Not*I site of pCGN11003 to create pCGN11053.

A napin cassette containing the L111A, F133A KAS II double mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11054.

A napin cassette containing the I108A, L111A, I114A KAS II triple mutant coding sequence was cloned into the *NotI* site of pCGN11003 to create pCGN11057.

A napin cassette containing the I108A, L111A, I114A KAS II triple mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11058.

A napin cassette containing the I108A, L111A, I114A, F133A, L197A KAS II multiple mutant coding sequence was cloned into the *Not*I site of pCGN11003 to create pCGN11061.

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A napin cassette containing the I108A, L111A, I114A, F133A, L197A KAS II mulitple mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11062.

A napin cassette containing the I108F KAS II mutant coding sequence was cloned into the *Not*I site of pCGN11000 to create pCGN11065.

A napin cassette containing the I108F KAS II mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11066.

A napin cassette containing the I108F, A193I KAS II double mutant coding sequence was cloned into the *Not*I site of pCGN11000 to create pCGN11069.

A napin cassette containing the I108F, A193I KAS II double mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11070.

A napin cassette containing the A193M KAS II mutant coding sequence was cloned into the *NotI* site of pCGN11000 to create pCGN11073.

A napin cassette containing the A193M KAS II mutant coding sequence was cloned into the *NotI* site of pCGN8642 to create pCGN11074.

Example 4: Analysis of Engineered KAS II Proteins Expression in E. coli

the Stratagene Quick-ChangeTM site-directed mutagenesis kit, and confirmed by DNA sequencing. The mutant KAS II genes cloned behind an IPTG inducible T5 promoter (pQE30 vector, Qiagen) were transformed into *E.coli* strain M15/pREP4. The effect of the expression of these KAS II mutants on the fatty acid composition of *E.coli* is shown in Figure 3. *E.coli* M15/pREP4 strains containing no vector (-Vec), vector without insert (+Vec), or vectors expression wild-type KAS I or II or single or multiple engineered forms of KASII were grown to mid-log phase in LB media at 30°C. Expression was induced for 2 hours with IPTG (0.75 mM), cells were harvested, lyophilzed, and the lipids were extracted into toluene and

derivatized by sodium methoxide and analyzed for fatty acid content by GC FAME analysis as described in Dehesh, et al. (1998) Plant J. 15:383-390.

The mutations prepared to increase the length of the end product fatty acids lead to the accumulation of abnormally long fatty acids in *E.coli* (Figure 3). Wild-type *E.coli* membranes contain no stearic acid and barely detectable levels of 20:0 and 20:1. Whereas L197, F133A and L111A all resulted in further elongation of the normal membrane components 16:0, and 18:1 resulting in the accumulation of 4, 7 and 13% 18:0 respectively, and 1 to 3% 20:0 and 20:1. KAS II/L111A produced the highest level of 18:0 (13%) while KAS II/L111A-F133A accumulated the highest levels of 20:0 and 20:1 (2 and 4% respectively). Mutations I108A and I114A appeared to decrease the long chain fatty acid accumulation due to L111A and F133A.

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The KAS II mutants prepared to shorten the maximum fatty acids were analyzed in vitro for the ability to utilize various chain length acyl-ACP substrates. Results of the in vitro assays (Figures 4, 5, and 6) demonstrates that the mutants I108F, I108L, A193M, and A193I have a reduced ability to utilize C8-ACP and longer substrates for condensation. However, these mutations are able to utilize C6-ACP substrates for elongation to produce C8 fatty acids. Furthermore, at least one mutation, A193M, had an increased ability to utilize C6-ACP substrates compared to the wild-type KAS for elongation.

The data showing the effect of mutations I108F, I108L, A193I and A193M (together or separately) on the enzymatic activity of KAS II are summarized in figures 4, 5 and 6. Figure 4 shows that mutations I108F, I108L and A193M all cause significant reduction in the activity of KAS II on 8:0-ACP as compared to 6:0-ACP (38, 31 and 12 fold reductions respectively), without significantly reducing the activity on 6:0-ACP. In other words they have effectively changed KAS II into an enzyme capable of making fatty acids up to a maximum of 8 carbons in length. Mutation A193I only causes a 1.8 fold decrease in activity on 8:0-ACP as compared to 6:0-ACP. Figure 5 shows that the combined mutations at I108 and A193 have the effect of reducing the activity of KAS II on 6:0-ACP somewhat, but figure 6 shows that the combined effect was much greater effect on the activity with acyl-ACPs 8:0 and longer (14:0). Consequently the double mutants are even more specific for the synthesis of 8 carbon fatty acids. The most specific is KAS II I108F/A193 KAS II which is 90X more active on 6:0-ACP than it is on 8:0-ACP suggesting that it is now an enzyme highly specific for the synthesis of fatty acids only up to 8 carbons in length.

Example 5: Structural Comparisons of a Plant Medium-Chain specific KAS with *E.coli* KAS II

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To further characterize the structure-function relationships of KAS fatty acid binding pockets the modeled structure of a plant medium-chain (8:0, 10:0) specific KAS [Cuphea. pulcherrima, (C.pu) KASIV] (Dehesh et al. (1998) Plant J. 15:383-390) was compared with the crystal structure of E.coli KAS II. Figure 8 shows that C.pu KAS I is predicted to share essentially the same folding pattern as E.coli KAS II with the exception of a few loop regions, as might be expected given the structural similarity between KAS enzymes. Furthermore, Cpu KAS IV also has a similar structure (Figure 9). The general structure for the KAS family of proteins follows the α - β - α - β - α folding pattern. Indeed at the amino acid sequence level, all but 7 of the 55 highly conserved residues among KAS enzymes are identical (87% identity). However there is only 60% identity in hydrophobic fatty acid binding pocket region with 8 of the 20 amino acids being different consistent with this region of the protein being responsible for the differences in the enzymes specificity. Furthermore the model shows no stearic hinderance in the formation of KASI and KASIV heterodimer (Figure 10). In addition, amino acid sequence comparisons between plant, mammalian, bacterial

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Example 6: Plant Transformation and Analysis

The expression constructs described in Example 3B above were used to transform *Arabidopsis thaliana* (Columbia) and/or Columbia mutants fab1, fae1-1, and fae1-2.

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Seeds from transformed *Arabidopsis* lines were analyzed for fatty acid composition and are provided in Table 2 below and shown in Figure 13. Fatty acid methyl esters (FAME) extracted in hexane were resolved by gas chromatography (GC) on a Hewlett Packard model 6890 GC.

Table 2

Fatty	12:0	14:0	16:0	12:0 14:0 16:0 16:1		18:0 18:1 18:1 18:2 18:3 20:0 20:1	18:1	18:2	18:3	20:0	20:1	20:1
						ć	5				į	
11050 4 0000 10						2	5					C[]
11008-A1002-19	0.29	0.17	7.86	0.50	3.85	14.53	3 37	26.02	18 72	7 02	11 61	271
110K2 ATOM 0	5)	;	10.0	7/.01	6.07	11.01	7.7
0-7001 W-70011	0.12	3.5	5.30	0.23	2.49	10.47	1.34	21.55	79 97	276	14 55	1 -
AT002-44	0.17	000	2 53	700	300	2/2		CC:+1 C1:2 17:02 CC:12	· · ·		7.7	7.11
	5	3	0.77	0.50	5.33	15.65	17.1	29.06	17.22	2.06	17.22	1.36
11041-AT002-9	0.00	0.00	9.46	0.29	3.49	13.87	1.18	27 37 18 88	888	2 28 1	17 50 1 43	1 12
									9	2.40	10.71	7

:								
ratty	20:5	20:3	22:0	22.1	22.2	22.5	0.70	24.1
Acid) 		1:11	C.77	0:47	74:1
11058-AT002-19	1.39	19.0	0.41	1.71	0.33	0.33	000	100
11062 47002 0	,,,			:	3	0.0	0.70	70.0
8-7001W-70011	7.20	70.7	0.55	5.36	0.40	13	0.47	0.63
AT002_44	1 63	700	0	•				2.5
th-700 (1)	1.05	0.30	0.29	I.26	0.05	0.07	0 14	0.14
111041-AT002 O	1 60	07.0	0				;	- 1.5
C-700111-11011	1.0%	0.40	0.30	1.46	9	0	20	710
						;	2	

T2 pooled seeds from transgenic *Arabidopsis* lines containing pCGN11041 (11041-AT002-9) expressing the native *E. coli* KAS II protein in the seed tissue demonstrated nearly the same fatty acid composition as the nontransformed control *Arabidopsis* plants (AT002-44).

T2 pooled seeds from transgenic *Arabidopsis* var Columbia containing the construct pCGN11058 demonstrated the ability to synthesize longer carbon chain fatty acids compared to the nontransformed control plants as well as transgenic plants containing the wild-type *E. coli* KAS II protein. Particular increases in the production of 18:1 c11, 20:1 c13, 24:0 and 24:1 are observed in transgenic plants containing pCGN11058. Increases of 18:1 c11, 20:1 c13, 24:0 and 24:1 of 2 to 3 fold are obtained compared to nontransformed control plants. The fact that these levels were not higher may be due to the fact that there are many enzymatic steps downstream from the condensation step catalyzed by KAS enzymes which affect the longer chain acyl-ACPs produced incorporation into triglycerides.

T2 pooled seeds from transgenic Arabidopsis var Columbia containing the construct pCGN11062 also demonstrated the ability to synthesize longer chain fatty acids compared to nontransformed control plants and transgenic plants containing the wild-type E. coli KAS II protein construct. The T2 pooled seeds of 11062 transgenic lines were found to have a 3 to 4 fold increase in 22:1 as well as increased amounts of 20:2, 20:3 and 22:3, consistent with the presence of a KAS II protein being present in the plastid.

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The above results demonstrate the ability to modify β -ketoacyl-ACP synthase sequences such that engineered β -ketoacyl-ACP synthases having altered substrate specificity may be produced. Such β -ketoacyl-ACP synthases may be expressed in host cells to provide a supply of the engineered β -ketoacyl-ACP synthase and to modify the existing pathway of fatty acid synthesis such that novel compositions of fatty acids are obtained. In particular, the engineered β -ketoacyl-ACP synthases may be expressed in the seeds of oilseed plants to provide a natural source of desirable TAG molecules.

All publications and patent applications mentioned in this specification are indicative of the level of skill of those skilled in the art to which this invention pertains. All publications and patent applications are herein incorporated by reference to the same extent as

if each individual publication or patent application was specifically and individually indicated to be incorporated by reference.

Although the foregoing invention has been described in some detail by way of illustration and example for purposes of clarity of understanding, it will be obvious that certain changes and modifications may be practiced within the scope of the appended claims.

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Claims

What is claimed is:

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- A method for obtaining an engineered β-ketoacyl-ACP synthase having an altered substrate specificity with respect to the acyl-ACP substrates utilized by said β-ketoacyl-ACP synthase, wherein said method comprises:
 - a) modifying a gene sequence encoding a first β -ketoacyl-ACP synthase protein to produce a modified β -ketoacyl-ACP synthase gene sequence, wherein said modified sequence encodes an engineered β -ketoacyl-ACP synthase having at least one substitution, insertion or deletion of one or more amino acid residues in the mature portion of said first β -ketoacyl-ACP synthase, and
 - b) expressing said modified gene sequence in a host cell, whereby said engineered β -ketoacyl-ACP synthase is produced.
- The method of claim 1 further comprising the step of assaying said engineered βketoacyl-ACP synthase to detect altered substrate specificity.
 - 3. The method according to claim 1 wherein said at least one amino acid substitution, insertion or deletion is in a position selected from the group consisting of residue 105 120, 130 140, 190 200 and 340 400 of a β-ketoacyl-ACP synthase protein.
 - 4. An amino acid sequence encoding a β-ketoacyl-ACP synthase protein wherein said sequence has at least one substitution, insertion or deletion of at least one amino acid residue and said protein has an altered substrate specificity.
 - 5. The amino acid sequence of claim 4, wherein said amino acid sequence is obtained from a prokaryotic source.
- 6. The amino acid sequence of claim 4, wherein said amino acid sequence is obtained from 3.0 *E.coli*.

7. The amino acid sequence of claim 4, wherein said amino acid sequence is obtained from a plant source.

 An amino acid sequence encoding a β-ketoacyl-ACP synthase protein wherein said sequence has at least one substitution, insertion or deletion of at least one amino acid residue selected from the group consisting of residue 105 - 120, 130 - 140, 190 - 205 and 340 - 400.

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- 9. The amino acid sequence of claim 8, wherein said amino acid sequence is obtained from E.coli.
 - 10. The amino acid sequence of claim 9 wherein said at least one amino acid substitution, insertion or deletion is in a position selected from the group consisting of residue 108, 111, 113, 114, 133, 138, 193, 197, and 203.

11. The amino acid sequence of claim 8, wherein said amino acid sequence is obtained from a plant source.

- 12. The amino acid sequence of claim 11 wherein said at least one amino acid substitution, insertion or deletion is in a position selected from the group consisting of residue 110, 113, 115, 116, 134, 139, 198, and 204.
 - 13. A nucleic acid construct comprising as operably linked components in the 5' to 3' direction of transcription:
- a transcriptional initiation region; and a polynucleotide sequence encoding a β -ketoacyl-ACP synthase having an altered substrate specificity.
- 14. The nucleic acid construct of claim 13, wherein said β-ketoacyl-ACP synthase has a
 30 engineered hydrophobic fatty acid binding pocket.

15. The nucleic acid construct of claim 13, wherein said β-ketoacyl-ACP synthase has been mutated in a region corresponding to an amino acid selected from the group consisting of residue 105 - 120, 130 - 140, 190 - 200 and 340 - 400.

16. A method for altering the fatty acid composition of a host cell comprising;
 transforming a host cell with a nucleic acid expression construct comprising a
 transcription initiation region, and a nucleic acid sequence encoding a β-ketoacyl-ACP synthase having altered substrate specificity, and
 growing said host cell under appropriate culture conditions such that the fatty acid
 composition is altered in said host cell.

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С	BLYS		<u> </u>	2 5.613	2.70	4 10 004	1.00	1	1-
C	LYS		_	2 5.613 2 6.322	-3.32 -2.75		1.00	59.14	
č	LYS			2 5.431	-1.78		1.00	61.37	
Č				2 5.988	-0.37		1.00	63.79	
N				2 6.107	0.235		1.00	67.05	
C	LYS		A I		-2.72		1.00	54.28	$\overline{}$
ō	LYS		A		-3.798		1.00	55.04	_
N	LYS		A 2		-3.329		1.00	55.75	
Cé			A 2		-2.678		1.00	55.55	
N	ARC		A 3		-1.550		1.00	51.95	$\overline{}$
CA				_	-1.460		1.00	49.09	_
CE					-0.701		1.00	45.74	6
C	ARC	_			-1.551		1.00	42.70	6
С	ARC	i I	\ 3		-0.696		1.00	39.77	6
N	ARC		_		0.132	-3.168	1.00	37.67	7
C2	ARC	L	\ 3	11.302	-0.211	-4.077	1.00	38.43	6
N	ARC		3		-1.395	-4.674	1.00	36.91	7
N	ARG	i A	3	12.270		-4.395	1.00	39.50	7
C	ARG	A	3	10.314	-0.795		1.00	47.74	6
0	ARG	A	3	10.086	0.368	2.498	1.00	48.18	8
N	ARG	A	4	11.236	-1.548	2.759	1.00	45.69	7
CA	ARG	_		12.030	-1.079	3,884	1.00	43.14	6
CB	_		4	12.459	-2.265	4.753	1.00	45.59	6
C	ARG		4	11.299	-3.046	5.351	1.00	49.39	6
C	ARG		_	11.719	-4.453	5.750	1.00	52.07	6
N	ARG		4	12,975	-4.463	6.482	1.00	56.09	7
CZ	ARC		4	13,402	-5.394	7.320	1.00	57.45	6
N	ARG		4	12.671	-6.469	7.583	1.00	58.72	7
N	ARG		4	14,583	-5.250	7.911	1.00	58.03	7
Ç.	ARG		4	13.258	-0.297	3.435	1.00	40.93	6
S.	ARG	₽	14	13.873	-0.605	2.416	1.00	40.28	8
N CA	VAL	₩.	5	13.590	0.744	4.194	1.00	38,82	17
CB	VAL	A	5	14.729	3.087	3,891	1.00	37.38	6
C	VAL	A	5	15.533	3.916	3.796	1.00	36.10	6
Ċ	VAL	Â	5	13.154	3.308	2.877	1.00	33.72 36.27	6
C	VAL	Â	5	15.816	1.453	4.953	1.00	36.82	6
0	VAL	A	5	15.549	1,542	6.151	1.00	36.76	8
N	VAL	A	6	17,046	1.229	4.506	1.00	36.09	7
CA	VAL	A	6	18.188	1.076	5.394	1.00	35.35	6
CB	VAL	TA	6	18.784	-0.343	5.351	1.00	34.87	6
С	VAL	A	6	17.864	-1.358	6.013	1.00	34.92	6.
C	VAL	A	6	19.087	-0.767	3.921	1.00	33.83	6
С	VAL	A	6	19.280	2.084	5.044	1.00	35.02	6
0	VAL	A	6	19.291	2,649	3.954		34.67	8
N	VAL	A	7	20,190	2.324	5.981		35.45	7
CA	VAL	A	7	21,298	3.256	5.781		34.76	6
CB	VAL	A	7	21,519	4.143	7.016		34.20	6
Ċ.	VAL	A	7	22.549	5.229	6.736		35.28	6
Ç.	VAL	A	7	20.207	4.769	7.474		33.35	6
<u> </u>	VAL	A	7	22.567	2.474	5.464		34.53	6
<u>.</u>	VAL	A	7	23.042	1.691	6.287		34.58	8
N .	THR	A	8	23.109	2.663	4.264		34.21	7
CA CB	THR	A	8	24.292	1.941	3.833		33.29	6
OB	THR	ļĄ.	8	24.005	1.203	2.496		32.59	5
c	THR	Α	8	23,817	2.189	1.470		33.02	8
c c	THR THR	A	8	22,787	0.308	2.579		29.02	6
0	THR	A	8	25.539	2.774	3,600		33.18	6
N	GLY		9	26.490	2.253	3.004		3.39	8
ÇA	GLY	A A	9	25.560 26.733	4.034	4.005		3.20	7
C.	GLY	A	9	26.733		3.757		2.15	6
ŏ	GLY	Â	9	25.543	6.183	4.528			6
N	LEU	A	1	27.702	6.795	5.174			8
4	HHU	\mathbf{a}	لبف	41.104	6.580	5.174	1.00	1.18	7

C		_	_	1 27.715		5.976	1.00	30.88	6
ļĊ		_	<u> </u>			7.465	1.00		_
ြင့	LEU	_	1			8.091	1.00	31.61	
Š	LEI	_	1			9.528	1.00	32.70	$\overline{}$
녆	LEU	_	1			8.027	1.00	30.96	_
녓	LEL	_	11			5.557	1.00	30.32	
O N	LEL	_	_		_	5.142	1.00	31,20	_
	GLY	_	_				1.00	29,75	_
C	A GLY				10.970		1.00	29.27	
ŏ	GLY						1.00	28.70	_
N	ME	_	_		12.602		1.00	28.60	
C/					13.052		1.00	28.95	_
CI		_	_		14.332		1.00	28.89	6
C	MET	_	_		14.156		1.00	31.91	6
SI			_	29.290	14.107	_	1.00	34.60	6
CE			_	29.116	12.360		1.00	35.65	1
C	MET		_	31.547	15.130		1.00	37.75 28.38	6
ō	MET		_	32.668	14.671	7.402	1.00	27.81	8
N	LEU	A	_	31.299	16.426		1.00	27.53	17
CA			_	32,257	17.446		1.00	27.49	6
CE		A	li	32.577	18.409		1.00	29.94	6
C	LEU	_	l	33.334	17.830		1.00	32.91	6
C	LEU	ĪΑ	1	33.043	18.630	4.173	1.00	33.46	6
C	LEU	A	1	34.828	17.784	5,721	1.00	33.17	6
С	LEU	A	1	31.597	18.185	8.933	1.00	27.03	6
0	LEU	Α	1	30.438	18.586	8,823	1.00	26.86	8
N	SER	A	1	32.312	18.320	10.034	1.00	27.31	7
CA	SER	$\perp_{\mathbf{A}}$	1	31,761	18.998	11.205	1.00	28.03	6
CB	SER	ļΑ	11	31.153	17.968	12,155	1.00	28.80	6
0	SER	A	1	32.095	17.519	13,112	1.00	31.76	8
C	SER	Į₿.	11	32.860	19,787	11.895	1.00	28,55	6
0	SER	ļΑ	11	34.043	19.612	11.612	1.00	28.57	8
N	PRO	A	11	32.488	20.594	12.880	1.00	29.49	7
C	PRO	ļĄ	1	31.084	20.865	13.288	1.00	29.61	6
CA	PRO	ļĄ.	1	33.426	21,371	13.665	1.00	<u>29,78</u>	6
CB	PRO	ļĄ	1	32.547	22.264	14.535	1.00	29.65	6
Ç.	PRO	ļĄ	1	31.201	22.240	13.902	1.00	29.56	6
C	PRO	A	1	34.379	20.543	14.509	1.00	30.22	6
N	VAL	A	1	35,409	21,090	14.924	1.00	30.34	8
CA	VAL	Â	1	34.099	19.277	14,817	1.00	30.78	7
CB	VAL	Â	i	35.023 34.400	18.464	15.592	1,00	31.66	6
C	VAL	A	1	34.067	17.804 18.850	16.836	1.00	31.11	6
Č	VAL	A	1	33.175	16.980	17.890 16.477	1.00	32.88	6
Č	VAL	A	î	35.695	17.376	14.761	1.00	31,36	6
ŏ	VAL	A	î	36.346	16.500	15.340	1.00	32.04 33.52	8
N	GLY	A	î	35.563	17,410	13.440		31.84	7
CA	GLY	A	î	36.197	16.390	12.612		31.47	6
C	GLY	Ã	1	35.809	16,494	11.146		31.36	6
0	GLY	A	1	34.696	16.904	10.817		31.58	8
N	ASN	Ā	1	36.727	16.101	10.269		30.64	7
CA	ASN	A	1	36.512	16.147	8.833		30.14	6
CB	ASN	Α	1	37.798	16.560	8.113		35.19	6
С	ASN	A	1	37.969	18.057	7.977	_	40.02	6
0	ASN	Α	1	37.973	18.798	8.961		43.84	8
N	ASN	Α	1	38.133	18,535	6.748		43.10	7
С	ASN	Α	1	36.017	14.824	8.269		29.28	6
0	ASN	Α	ı	35.843	14.691	7.058		28.86	8
N	THR	Α	1	35.881	13.805	9.104		29.33	7
CA	THR	Α	ì	35.345	12.514	8.721			6
CB	THR	Α	1	36.381	11.377	8.653		_	6
0	THR	Α	ı	37,050	11.283	9,920			8
C	THR	A	1	37.397	11.575	7.548			6

Figure 1 - 1

C	_						, -			_
N	C	THR	∧	11	34.289	12,077	9.743	1.00	29.04	6
N	0	THR	_	11	34.219	12.625	10.840	1.00	28.85	8
CA	N	VAL		12				_		_
CB			_			1				_
C VAL A 2 30.737 8.721 10.564 1.00 26.35 6 C VAL A 2 31.036 9.898 8.392 1.00 27.62 6 C VAL A 2 33.145 9.945 11.609 1.00 33.28 8 N GLU A 2 34.991 9.018 11.517 1.00 32.22 7 CA GLU A 2 34.905 6.105 11.590 1.00 34.30 6 C GLU A 2 33.863 5.361 12.464 1.00 39.90 6 C GLU A 2 33.925 4.607 11.919 1.00 39.19 8 C GLU A 2 35.645 3.390 13.571 1.00 32.05 7 C GLU A 2 35.645 3.391 14.789 1.00			$\overline{}$							_
C VAL A 2 31.036 9.898 8.392 1.00 27.62 6 C VAL A 2 33.145 9.945 11.609 1.00 31.80 6 O VAL A 2 34.091 9.018 11.517 1.00 32.242 7 CA GLU A 2 34.703 8.414 12.692 1.00 34.50 6 CB GLU A 2 34.505 6.105 11.590 1.00 36.61 6 C GLU A 2 33.863 5.361 12.464 1.00 39.90 6 O GLU A 2 33.925 4.607 11.919 1.00 39.19 8 C GLU A 2 35.245 9.391 14.789 1.00 31.37 6 C GLU A 2 36.257 11.289 13.605 1.00			_							
C VAL A 2 33.145 9.945 11.609 1.00 31.80 6 O VAL A 2 32.732 10.364 12.694 1.00 33.28 8 N GLU A 2 34.091 9.018 11.517 1.00 32.242 7 CA GLU A 2 34.703 8.414 12.592 1.00 34.30 6 C GLU A 2 33.863 5.361 11.590 1.00 36.61 6 C GLU A 2 33.912 5.510 13.703 1.00 40.93 8 O GLU A 2 33.925 4.607 11.919 1.00 39.19 8 C GLU A 2 35.245 9.391 14.789 1.00 33.10 8 C GEU A 2 36.245 9.391 14.789 1.00										_
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C LYS A 2 38.175 7.756 17.083 1.00 48.38 6 CE LYS A 2 38.218 6.354 16.497 1.00 50.26 6 NZ LYS A 2 39.243 5.508 17.170 1.00 53.04 7 C LYS A 2 35.456 11.231 19.393 1.00 33.60 6 O LYS A 2 35.500 11.178 20.626 1.00 33.43 8 N ALA A 2 35.574 13.661 19.422 1.00 32.92 7 CA ALA A 2 35.802 14.794 18.433 1.00 32.19 6 C ALA A 2 34.331 13.912 20.267 1.00 33.95 6 O ALA A 2 34.435 14.413 21.390 1.00	C	LYS	Α	2	36,744	8.185	17.377	1.00	44.28	6
CE LYS A 2 38.218 6.354 16.497 1.00 50.26 6 NZ LYS A 2 39.243 5.508 17.170 1.00 53.04 7 C LYS A 2 35.466 11.231 19.393 1.00 33.60 6 O LYS A 2 35.500 11.178 20.626 1.00 33.43 8 N ALA A 2 35.493 12.381 18.727 1.00 32.92 7 CA ALA A 2 35.574 13.661 19.422 1.00 33.42 6 CB ALA A 2 35.802 14.794 18.433 1.00 32.19 6 C ALA A 2 34.435 14.413 21.390 1.00 33.95 6 O ALA A 2 31.599 13.541 19.765 1.00 <td>C</td> <td>LYS</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td>	C	LYS		2						_
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CB ALA A 2 35.802 14.794 18.433 1.00 32.19 6 C ALA A 2 34.331 13.912 20.267 1.00 33.95 6 O ALA A 2 34.435 14.413 21.390 1.00 34.63 8 N LEU A 2 33.159 13.541 19.765 1.00 34.18 7 CA LEU A 2 31.999 13.718 20.487 1.00 34.55 6 CB LEU A 2 30.710 13.432 19.585 1.00 33.95 6 C LEU A 2 30.303 14.460 18.534 1.00 34.29 6	LCA	ALA	A	2	35.574	13.661	19.422	1.00	33.42	6
C ALA A 2 34.331 13.912 20.267 1.00 33.95 6 O ALA A 2 34.435 14.413 21.390 1.00 34.63 8 N LEU A 2 33.159 13.541 19.765 1.00 34.18 7 CA LEU A 2 31.909 13.718 20.487 1.00 34.55 6 CB LEU A 2 30.710 13.432 19.585 1.00 33.95 6 C LEU A 2 30.303 14.460 18.534 1.00 34.29 6								_		_
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ř	LEU	4	12	31.823	12.851	21.736	1.00		46
9	LEU	ļ٨	12	31.378	13.316		1.00		8
N	LEU	ĮA,	12	32.280	11.605	21.655	1.00		
CA	LEU	↓A	2	32.268	10.706	22,804	1.00	35.06	6
CB	LEU	ĮA,	12	32.555	9,268	22,371	1.00	32.51	6
C	LEU	AL.	2	31,525	8.585	21.467	1.00	29.72	6
C_	LEU	↓ A	2	31.961	7.165	21.133	1.00	26.45	6
C	LEU	IA	2	30.142	8.573	22.099	1.00		6
С	LEU	A	2	33.238	11.148	23.891	1.00		6
0	LEU	A	2	32.966	10.952	25.078	1.00		8
N	ALA	A	2	34.305	11.857	23.540	1.00		7
CA	ALA	A	2	35,256	12.404	24,490	1.00		6
СВ	ALA	ĪĀ	2	36.650	12.454	23.870	1.00		6
C	ALA	A	2	34.873	13.794	24.980	1.00		6
0	ALA	Ā	2	35.624	14,411	25.741	1.00	35.34	18
N	GLY	ÍÂ	3	33.741	14.327	24.544	1.00	34.34	17
ÇA	GLY	A	3	33.263	15.629				_
C	GLY	A	3			24.953	1.00	34.46	6
ŏ			3	34.078	16.803	24.446	1.00	34.66	6
N	GLY	A	$\overline{}$	34.082	17.863	25.078	1.00	34.44	8
CA	GLN	_	3	34.706	16.668	23.283	1.00	35.27	17
	GLN	A	3	35.474	17.757	22.699	1.00	36.10	6
CB	GLN	A	3	36.455	17.223	21.654	1.00	40.70	16
<u>~</u>	GLN	A	3	37.617	16.445	22,243	1.00	46.29	16
<u>č</u> –	GLN	A	3	38.581	15.895	21.215	1.00	48.06	6
0_	GLN	A	3	38,706	16.408	20,103	1.00	48,24	18
$\bar{\mathbf{N}}$	GLN	A	3	39,286	14.828	21.588	1.00	49.02	17
C	GLN	A	3	34.557	18,808	22,078	1.00	36.01	6
0	GLN	A	3	33.562	18,493	21,429	1.00	35.71	8
N	SER	Α	3	34.891	20.073	22.307	1.00	35.38	17
CA	SER	A	3	34.150	21,192	21.739	1.00	34.80	16
CB	SER	A.	3	34,195	22.391	22,679	1.00	34.05	6
Q.	SER	A.	3	33,564	23.531	22.140	1.00	33,64	8
С	SER	A	3	34.763	21.541	20,386	1.00	35.05	6
0	SER	A	3	35,962	21.337	20.191	1.00	34.56	8
N.	GLY	A	3	33.955	22.040	19.459	1.00	35.39	7
CA	GLY	Α	3	34.462	22,402	18.135	1.00	35,60	6
c l	GLY	A	3	34.336	23.906	17.921	1.00	35.68	6
0	GLY	A	3	34.539	24.440	16.835	1.00	36.23	8
N	ILE	A	3	34.006	24.601	19,000	1.00	36.01	7
CA	ILE	A	3	33.746	26.031	18.997	1.00	36.55	6
СВ	ILE	A	3	32.690	26.348	20.089	1.00	36.05	6
c	ILE	Α	3	32.210	27.780	19.950	1.00	34.80	6
c	ILE	A	3	31.583	25.307	19.990	1.00	36.07	6
č	ILE	A	3	30.154	25.663	20,253	1.00	39.29	6
c l	ILE	A	3	34,994	26.875	19.184	1.00	37.54	6
ŏ	ILE	Ā	3	35.710	26.788	20.180	1.00	37.10	8
Ň	SER	A	3	35,253	27.735	18,204	1.00	38.80	7
CA	SER	A	3	36.422	28.593	18.154	1.00		_
CB	SER	A	3	37.337			j	39.48	6
0					28,135	17.008	1.00	42.02	6
-	SER	A	3	38,329	27.235	17.454	1.00	46.40	8_
ဌ니	SER	A	3	36.059	30.053	17.896	1.00	39.54	6
9	SER	A	3	34.918	30.363	17.558	1.00	39.54	8
N I	LEU	A	3	37.045	30.937	18.011	1.00	39.16	7
	LEU	A	3	36.849	32.355	17.731	1,00	38.94	6
CB	LEU	Α	3	37.937	33.204	18.383	1.00	41.98	6
	LEU	A	3	37.834	33.497	19.878	1.00	43.75	6
	LEU	A	3	39,104	34,179	20.370	1.00	44,67	6
	LEU	Α	3	36.618	34.356	20.193	1.00	44.78	6
<u> </u>		A	3	36.876	32.580	16.219	1.00	38.03	6
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	LEU	Â	3				1.00	38,07	g l
2 2	LEU	A	3	37.683	31.949	15.534	1.00	38.07 37.29	8 7
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0	ILE		1							
N	ASF	1	ΔLi	37.87	0 34.15	3 12.77	2 1.0	0 38.2	9 7	7
C	A ASF	1	A 13	39.05	6 34.87			-	_	
C			_							_
C		_	_							
	ASP		_				7			_
0	ASP	1	\ [3	41.07	7 32.34	4 11.160	1.0	2 49.1	3 8	L
O	ASP	· [A	<u> 113</u>	39.44	4 31.84	2 12.52	5 1.0	52.0	2 8	
C	ASP								_	1
0	ASP		_				_			
		_	_							
N	HIS	44	_				7 1.00	37.59	3 7	
LC/	A I HIS	_LA	<u> </u>	37.943	35.22	9 8.696	1.00	37.0	1 6	
LCE	HIS	A	3	37.379	34,05		1.00		_	_
С	HIS	A		36.020					_	_
C	HIS	_	_				1.00			
		<u> </u>		35.624			1.00			4
N	HIS	LA.	<u> 3</u>	34.875	34.01	6 7.684	1.00	37.20	17	J
CF	HIS	I A	<u> </u>	33.830	33.49	2 8.295	1.00	37.69	6	٦
N	HIS	IA	3	34.252			1.00		_	ヿ
C	HIS	Ā		37.241					_	Н
ŏ		_					1.00			4
_	HIS	\perp A	<u> 13</u>	37.175			1.00	37.23	1 8	4
N	PHE	ЦA	4	36,755	37.25	9.362	1.00	35.95	17	
CA	PHE	LA	4	36.197	38.58	9.192	1.00	35.56	6	7
CB	PHE	TA	4	34.794			1.00			٦
C	PHE	Ā	4	33.678						Ⅎ
		_	_			_	1.00			4
Iç.	PHE	A	4	33.244	36.770		1.00			4
C	PHE	A	14	33.035	38.840	10,416	1.00	28.56	6	J
CE	PHE	LA	14	32.212	36.241	10.000	1.00	28.21	6	7
CE	PHE	A	14	31,998	38.315		1.00	29,67	6	٦
CZ		IÃ	4	31.585	37.014					1
C							1.00	27.52	6	4
	PHE	ļĄ	4	36,327	39.324		1.00	36.35	6	4
0	PHE	ĮA,	4	36,487	38,691	11.571	1.00	35.69	1.8	J
N	ASP	A	4	36.400	40.648	10.472	1.00	37.94	7	1
LCA	ASP	A	4	36.552	41.437	11.690	1.00	39.82	6	7
СВ		A	4	36.910	42.886		1.00	45,32	6	1
C	ASP	A	4							1
				37.632	43.576		1.00	49.18	16	4
0	ASP	IA.	14	38,498	42,932		1.00	53.55	18	4
0	ASP	IA	4	37,336	44.758	12,759	1.00	51.63	8	L
C	ASP	A	4	35.290	41.390	12.541	1.00	39.52	6	1
0	ASP	A	4	34.238	41.888	12,140	1.00	39.80	8	1
N	THR	A	4							1
		_	_	35.393	40.807	13.732	1.00	39.36	7	1
CA	THR	A	4.	34.259	40,695	14.639	1.00	39.57	16	1
CB	THR	LA.	14	34,194	139,280	15.254	1.00	37.93	6	1
0	THR	A.	4	35,410	39.020	15,962	1.00	39.07	8	l
C	THR	Α	4	34.012	38,226	14.175	1.00	37.57	6	1
C	THR	A	4	34,270						1
_		_	_		41.724	15.760	1.00	39.78	6	1
0	THR	A	4	33,585	41.562	16.774	1.00	40.41	8	1
N	SER	Α	4	34,935	42.853	15,568	1.00	40.48	7	1
LCA	SER	Α	4	35.051	43.916	16.548	1.00	40.85	6	
CB	SER	Α	4	35.893	45.067	15.972	1.00	43.88	6	ı
			_							
<u>o</u>	SER	A	4	37,275	44.779	16.102	1.00	49.24	8	l
C_	SER	A	4	33.727	44.489	17.029	1,00	40.22	6	1
	SER	A	4	33,536	44.709	18.226	1.00	40.13	8	l
N	ALA	Α	4	32,799	44.744	16.116	1.00	39.96	7	
CA	ALA	A	4	31.495	45.299				_	
CB						16.440	1.00	38.98	6	
	ALA	A	4	30.998	46.115	15,247	1.00	39.66	6	
C	ALA	A	4	30.449	44.245	16.774	1.00	38.40	6	
0	ALA	Α	4	29.325	44.570	17.164	1.00	39.15	8	
N	TYR	A	4	30,798	42.979	16.611	1.00	37.11	7	
CA	TYR	A	4	29.870						
		_			41,881	16.810	1.00	35,72	6	
CB	TYR	A	4	30.317	40.698	15.938	1.00	35.08	6	
C	TYR	A	4	30.085	40.940	14.460	1.00	34.28	6	

	,	_												
	<u> C</u>		TY	R (A.	4	30.900	41.79	13	13.73	1 1.0	0 34.3	2	6
	LC	E	TY	<u>R </u>	A	4	30.682			12.383				6
	C		TY	R	A	4	29.040	40.31	1	13.79				6
	C	E	TY	R	A	4	28.815		_	12.449			_	6
	C	z .	TYI		ΑТ	4	29.640		_	11.747			_	6
	0		TY		A	4	29.419		_	10.407			_	
	C		TY		A	4							-	8
	lŏ	_					29,708			18.261	_			6
	_	-	TYI	_	4	4	30.648		_	19.049			6	8
	N	_	AL/		4	4	28.470	_		18.607		0 35.4	6	7
	C		AL		4	4	28.129			19.946	1.0	0 34.8	1	6
	CI	Щ	ALA		A	4	26,634	40.78	6	20.186	1.0	0 36.4	L	6
	C	4	AL/	4	<u> </u>	4	28.579	39.20	8	20.146	1.0	0 34.1	oΤ	6
	0	_	AL _A	L	<u>A</u>	4	28.883	38.79	2	21.263	1.0	0 34.6	оΤ	8
	N	_	THE	Ł	ΔĹ	4	28,586	38.43	5	19.067				7
	LC/	V	THE	Ł	A.	4	29,063	37.05	6	19.106				6
	CF	3	THE	3 L	A.I.	4	27,988			18.717				6_
	0	1	THE			4	26,858			19.587		_		8
	C	٦	THE		_	4	28.527	34.62		18.850				<u>6</u>
	C	7	THE	_	_	4	30.286	36.96		18.197	_			_
	ō	7	THE	_		4	30.245	37.33			1.0	-		<u>6</u>
	N	7	LYS	_	_	4	31.396			17.024	1.00			8_
	CA	.†	LYS	-	_			36,50		18.768	1.00			7_
	CE			-14		4	32.657	36.42		18,050	1.00			6_
	_	+	LYS	+4	_	4_	33.717	37.23		18,819	1.00	_	_	6_
	S	+	LYS			4	33.374	38.702	~	19,005	1.00		_	<u>6</u>
	C	+	LYS	+4	_	4	33.873	39.244		20.333	1.00			6_
	CE		<u>LYS</u>			4_	33.865	40.764		20,339	1.00		ш	6_
	ΝZ		LYS	44	_	4_	32.586	41.311		20.865	1.00	34.62	L	7_
	Č.		LYS	1		4_	33.163	35.005	_	17.861	1.00		45	5
	0		LYS	14		4	34,296	34,813		17.414	1.00			
	N		PHE			٤	32.331	34,024		18,189	1.00			7
	CA	_	PHE	_	_	1	32,746	32.631	_	18.067	1.00	29.90	16	<u>.</u>
ļ	CB	-	PHE	44	4	_	32.956	32,036		<u> 19.465</u>	1.00	26.81	16	<u>.</u>
	C		PHE	4	4		31.749	32.146		20.352	1.00	23.68	16	ப
	Ç		PHE	- A	4		30,814	31.127		20.404	1.00		16	凵
Į	C		PHE	Į₽,	4	$\overline{}$	31.550	33.273		21,135	1.00	23.53	6	ட
ı	CE	_	PHE	ļΔ	4	_	29.701	31,226		21.220	1.00		16	Ц
1	CE		PHE	44	14	_	30,437	33.379	_	<u>21.946</u>	1.00	21.85	16	Ц
Į	CZ		PHE	ĮΑ	4	┱	29.516	32.352	_	<u> 21.996</u>	1.00	22.46	16	Ц
ĺ	č		PHE	ļ٨	4	_	31,739	31.794	1	17,292	1.00	30.06	16	Ц
l	0	_	HE	ļ٨	44		30.587	32.180		17.108	1.00	30.44	18	
l	N	1	<u>lla</u>	Ą	15		32.186	30,619		16,864	1.00	30.06	17	┙
ŀ	CA	_	<u>IIA</u>	A	15		31.347	29.682	¥	16,135	1.00	29.97	16	┙
ŀ	CB	7	LA	₽	+ 5		31.022	30.226		14.749	1.00	30.60	16	┙
ŀ	<u>č</u>		LA.	₽	15		32,021	28.317	Ľ	16.010	1.00	29.72	6	╝
ŀ	<u>o</u>		<u>MA</u>	ĮA,	15	4	33.199	28.141		16.314	1.00	29.34	8	╝
ŀ	N	_	LY	A	15	4	31,240	27.343	Ļ	15.560	1.00	29.39	17	╛
	CA		LY	Į₽	5	4	31.771	25.999	Ľ	15.301	1.00	29.28	6	l
	<u>c</u> _		LY	ĮA,	5	4	32,187	26.026	Ŀ	13.820	1.00	29.28	6]
	<u>o_</u>	,	LY	ĮA.	5	4	31.333	26.008	Ŀ	12.933	1.00	28.28	8	٦
	N	_	<u>EU</u>	A	5	4	33.484	26,171	L	13.579	1.00	29.22	7	٦
	CA		EU	A	5		33.978	26,271	L	12,212	1.00	30.02	6	7
٠	CB	L	EU	A	5	4	34,980	27.425		12,103	1.00	28.78	6	7
	C_		EU	A	5	1	34.413	28.821	li	2.389	1.00	28.71	6	٦
	C	L	EU	A	15	4	35,511	29.750	Б	2.886	1.00	27.15	6	٦
	C	I	EU	Α	5	1	33.731	29.388		1,153	1.00	25.21	6	1
	C	L	EU	Α	5		34.605	24,969		1.736	1.00	30.75	6	7
	┙	L	EU	Α	5		35.148	24,207		2,533	1.00	31.22	8	1
٠	Z	٧	AL	Α	5	\int	34.488	24,708		0.437	1.00	31.59	7	1
	CA	V	AL	A	5	_	35.117	23.509		.866	1.00	32.60	6	1
	СВ		AL	A	5	\neg	34.479	23.078		.547	1.00	30.09	6	1
	c I	V	AL	A	5		35,310	22.034		.817	1.00	29.51	6	1
ĺ	\Box	V	AL	A	5		33.080	22.523		.810	1.00	26.99	6	1
9	C	v	AL	Α	5		36,599	23,850		.731	1.00	34.05	6	1
1		V	AL	Α	5		36.949	24.879	-	153	1.00	33.97	8	1

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N	LYS	10	1 5	37.449	23.04	3 10.349	1.00	36.41	1 7
CA	LYS	10	<u> 15</u>	38.878	23.314	10.391	1.00	1 38.50) 6
CE	LYS	\perp_{A}	15	39.363	23.11	7 11.840	1.00	38.42	6
C	LYS		15	38.814	24.16	1 12,794	1.00		
C	LYS	T A	5	38,770	23.668		1.00	_	
CE		LA		37.350			1.00		_
NZ		IA		36.653	24.697		1.00	_	_
С	LYS	A	-	39.718	22.478		1.00		_
ŏ	LYS	A	_	39.596	21.260		_		
N	ASP	TA	_				1.00		
		_	_	40.664	23.147		1.00	42.10	
CA	ASP	-∤4		41.617	22.514		1.00	43.84	
CB		- -∆		42.512	21.555		1.00	47.61	6
C_	ASP	-↓A	5	43.289	22.268		1.00	50.56	6
0	ASP	JA	5	43.952	23.279		1.00	52.38	8
0	ASP	.↓∧	5	43.187	21.836	10.940	1.00	52.15	8
C	ASP	<u> </u>	5	40.941	21.788		1.00	44.21	6
0	ASP	A	5	41,227	20.626	6.428	1,00	44.58	8
N	PHE	A	5	40.050	22.488		1.00	43.94	7
CA	PHE	A	5	39,275	21.914	4.945	1.00	44.27	6
CB	PHE	Ä	5	37.963	22.698		1.00	38.90	6
C	PHE	Ä	5	37.060					
C	PHE	A	_		22.308	3.696		34.96	6
C		_	15	36,432	21.075	3.672	1.00	32.24	6
	PHE	ļĄ	5	36,827	23.193	2.653	1.00	33.21	16
CE	PHE	ļΑ	5	35,597	20,725	2.629	1.00	31.61	6
CE	PHE	₽.	5	35.992	22.848	1.607	1.00	32.75	6
CZ	PHE	A	5	35.377	21.612	1.595	1.00	32.24	6
C	PHE	↓ A.	15	40.028	21.868	3.627	1.00	45.76	6
0	PHE	IA.	5	40.511	22.875	3,115	1.00	45.77	8
N	ASN	IA.	5	40.109	20.672	3,051	1.00	47.93	7
CA	ASN	A	5	40.764	20.458	1.769	1.00	50.19	6
CB	ASN	A	5	42.108	19.750	1.930	1.00	55.16	6
C	ASN	A	5	42.893	19.657	0.637	1,00	59.33	6
0	ASN	A	5	43.373	18.585	0.266	1.00	61.85	8
N	ASN	Ā	5	43.038	20.776	-0.065	1.00	60,64	7
C	ASN	A	5	39.860	19.647	0.842	1.00	50,97	6
0	ASN	A	5	39,380	18.573	1.203	1.00	51.24	8
Ň	CYS	Ā	5	39,606	20.198	-0.338	1.00	51.32	7
CA	CYS	Â	5	38,762	19.529	-1.322	1.00	52.14	6
СВ	CYS	Â	5		20.144				_
SG	CYS	A	5	37.365	21.830	-1.347	1.00	52.43	6
C	CYS	A	_	37,309		-1.997	1.00	50.96	1
		_	5	39,408	19.600	.2.699	1.00	52.89	6
<u>0</u>	CYS	A	5	38.805	19.251	-3.709	1.00	52.44	8
N	GLU	ļĄ.	5_	40.689	19.951	-2.722	1.00	54,30	7
CA	GLU	A.	5	41.479	20.027	-3,943	1.00	56.17	6
CB	GLU	A.	5	42.919	20.418	-3.604	1.00	60.28	6
C_	GLU	A	5	43.697	21,045	-4.743	1.00	65.46	6
C	GLU	A	5	43.878	22.543	-4.612	1.00	68.19	6
0	GLU	A	5	44,798	23.084	-5.266	1.00	69.51	8
0	GLU	A	5	43.111	23.192	-3.872	1.00	69.64	8
C	GLU	Α	5	41.457	18.714	4.717	1.00	56.61	6
0	GLU	Α	5	41.277	18.697	-5.936	1.00	56.60	8
N	ASP	Α	6	41.571	17.594	-4.013	1.00	57.07	7
CA	ASP	Ā	6	41.491	16.269	-4.601	1.00	57.64	6
СВ	ASP	A	6	41,873	15.183	-3.599	1.00	62.92	6
C	ASP	Â	6	41.772	15.563	-2.141			_
ŏ	ASP	A	6				1.00	66.58	6
		_	_	40.916	14.989	-1.431	1.00	68.82	8
0	ASP	A	6	42.559	16.417	-1.677	1.00	68.78	8
Č	ASP	A	6	40.111	15.977	-5.186	1.00	56.94	6
0	ASP	A	6	40.014	15.332	-6.232	1.00	56.79	8
N	ILE	A	6	39.049	16.432	4.531		56.25	7
CA	ILE	A	6	37.691	16.200	-4.995	1.00	55.48	6
CB	ILE	A	6	36,685	16.184	-3.824	1.00	54.74	6
C	ILE	A	6	35.366	15.567	-4.270		53.87	6
С	ILE	A	6	37.242	15.462	-2.600		54.58	6
			_						_

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C	ILE	-14	_		13.998	-2.774	1.00	54.63	3 6
C	ILE	-14	_	37.223	17,225	-6.020	1.00	55.26	6
	ILE	1	1 6	36.583	16.871	-7.013	1.00	54.72	8
N	ILE	-16	1 6	37.389	18,509	-5.720	1.00	55.58	7
CA			1 6	36.959	19.594	-6.587	1.00	56.21	6
CB	ILE		16	35.885	20,502	-5.963	1.00	54.72	6
C	ILE	I A	1 6	35.379	21.516	-6.985	1.00		6
C	ILE	L A	6	34.697	19.717	-5.404	1.00		
C	ILE	Α	6	34.399	20.027	-3.952	1.00		
C	ILE	A	6	38.151	20,477	-6.962	1.00		
0	ILE	A	6	38.886	20.940		1.00		
N	SER	LA	6	38.297	20,751	-8.254	1.00		_
CA	SER	A	6	39.409	21.565	-8.732	1.00		
CB	SER	A	6	39.496	21.520	-10,258			
Q	SER	A	6	38,215	21.648	-10.849	1.00		8
С	SER	A	6	39.286	23,007	-8,261	1.00		6
0	SER	. A	6	38.203	23,459	-7.890	1.00		8
N	ARG	_	6	40.389	23.749	-8.340	1.00	_	17
CA	ARG	_	6	40.391	25,163	-7.975	1.00	64.33	6
CB			6	41.798	25.733	-7.862	1.00	70.36	6
C	ARG	A	6	42.847	24.781	-7.312	1.00	75.55	6
C	ARG	Ā	6	43.965	24.570	-8.322	1.00	79.64	6
N	ARG	IA	6	44.571	23.249	-8.210	_		_
CZ	ARG	Ã	6	45.874	23.006	-8.289	1.00	83,48	6
N	ARG	ΪÃ	6	46.737	23.996	-8.481	1.00	85.63 87.20	17
N	ARG	TÂ	6	46.327	21.764	-8.173	1.00	86.70	17
C	ARG	A	6	39.578	25.952	-9.003			_
ŏ	ARG	Ā	6	38.912	26.929	-8.665	1.00	63.68	6
Z	LYS	Ä	6	39.621	25.512	-10.259	1.00	62.41	8
CA	LYS	IA	6	38.838	26.122	-11.323			_
CB	LYS	A	6	39.078	25.442	-12.667		61.01	6
C	LYS	Ã	6	40,473	25.584	-13.247	1.00	64.05 67.89	6
Č	LYS	Â	6	40.692	24.601	-14.390	1.00	70.27	_
CE	LYS	A	6	42.115	24.069	-14.405	1.00	72.41	6
NZ	LYS	A	6	42,174	22.613	-14.094	1.00	73.35	6
C	LYS	A	6	37.355	25.994	-10,959	1.00	59.05	6
ō	LYS	A	6	36.623	26.977	-10.893	1.00	59.16	
N	GLU	A	6	36.933	24.768	-10.663	1.00	56.50	8 7
CA	GLU	Ā	6	35.560	24.458	-10.303	1.00	54.00	_
CB	GLU	Â	6	35.351	22.937	-10.348	1.00	53.27	6
C	GLU	A	6	35.135	22.410	-11.759	1.00	52,23	6
č	GLU	A	6	33,753	22.724	-12.296	1.00	51.74	6
ŏ	GLU	A	6	33.652	23.202	-13.444	1.00	49.51	8
ŏ	GLU	A	6	32.764	22.494	-13.411	1.00	52.67	8
C	GLU	Â	6	35.113	25.008			52.28	
ŏ	GLU	Â	6	33,929	25.285	-8.961 -8.749	1.00		6
Ň	GLN	A	6	36.032	25.227	-8.034	1.00	51.71 50.86	8 7
CA	GLN	Ā	6	35.780	25.773	-6.715	1.00	49.27	6
СВ	GLN	A	6	37.107	25.821	-5.948	1.00	49.56	6
C	GLN	Â	6	37.061	25.384	-4.497	1.00	50.72	_
č	GLN	Â	6	38,460	25.262	-3.918			6
ŏ	GLN	A	6	39.130	26.269		1.00	51.56	6
N	GLN	A	6	38,908		-3.682	1.00	51.87	8
c	GLN	A	6	35.184	24.031	-3.700	1.00	50.91	7
ŏ	GLN	A	6	34,447	27,173	-6.731	1.00	48.26	6
Ň	ARG	A	6	35.475	27.566	-5.825	1.00	48.39	8
CA	ARG	A	6	35.017	27,960	-7.756 7.030	1.00	47.26	7
CB	ARG	A	6		29.320	-7.939	1.00	45.38	6
_		_	1	35.835	29.966	-9.074	1.00	52.16	6
문	ARG	Ā	6	35.884	31,480	-9.005	1.00	59.18	6
N	ARG	A	6	35,460	32.120	-10.317	1.00	65.00	6
	ARG	A	6	34.851	33.429	-10.120	1.00	70.09	7
CZ	ARG	A	6	35.477	34.531	-9.730	1.00	72.67	<u>6</u>
N	ARG	A	6	36.780	34.518	-9.476	1.00	73,94	7
4 1	ARG	A	6	34,797	35.664	-9,589	1.00	74.21	7

Figure 1 - 4

<u> </u>	1.5	~							
닏	ARC	_	_	33.54			1.00		
10	ARC			32.974			1.00		_
K C	LYS		<u> </u>				1.00		_
C			A				1.00		
C	LYS	-							6
Ċ	LYS		A 6						6
C	_	_	_						6
N			1 6		_		_		16
C	LYS		1 6				_		7
Ö	LYS	_	1 6				1.00		6
N	ME						1.00		8
C			_				1.00		
CI			_	30.475			1.00		6
C	ME		_	31.857	25.194		1.00		6
SI			_	31.957	23.402		1.00		1
CE			_	31.529	22.901	-7.367	1.00	34.53	6
C	MET	_	$\overline{}$	30.684	27.848		1.00	28.31	6
0	MET			31.832	27.922		1.00	28.11	8
N	ASP	TA		29.624	28.234	-3.503	1.00	25.95	7
CA		IA	_	29,766	28,751	-2.143	1.00	23.65	6
CE				28.413	29,222	-1.616	1.00	20,66	6
C	ASP	I.A		28.479	29.865	-0.246	1.00	22.27	6
0	ASP	A	17	28.312	29,143	0.762	1.00	21.88	8
0	ASP	LA	7	28.718	31.089	-0.170	1.00	21.04	8
C	ASP	LA	7	30.326	27.629	-1,273	1.00	22.62	6
0	ASP	Α	7	30.144	26.453	·1.603	1.00	22,32	8
N	ALA	A	17	30.882	27.953	-0.115	1.00	21.68	7
LCA	ALA	J۵	7	31.389	26.979	0.831	1.00	21.95	6
CB	_	_ _A	17	31.922	27.690	2.079	1.00	19.90	6
C	ALA	┸	17	30.380	25.920	1.251	1.00	22.22	6
0	ALA	A.	17	30.796	24.777	1.483	1.00	22,29	8
N	PHE	.∤Α	17	29,093	26.236	1.373	1.00	22.19	7
CA	PHE	ļΑ	7	28.095	25,239	1.753	1.00	22.22	6
CB	PHE	ĮĄ.	7	26.728	25.848	2.038	1.00	20.07	6
C	PHE	₽¥.	17	25.717	25.891	0.936	1.00	17.46	6
<u> </u>	PHE	₽₽	17	24.749	24.907	0.811	1.00	18.74	6
C	PHE	ļĄ	17	25.726	26.918	0.006	1.00	17.25	6
CE	PHE	A	17	23.818	24.946	-0.210	1.00	18.48	6
CE	PHE	 ^	7	24.806	26,962	-1.024	1.00	12.10	6
C	PHE	ļĄ	7	23.842	25.981	-1.126	1.00	15.15	6
ŏ	PHE	A	7	28.014	24.132	0.705	1.00	22.32	6
N	ILE	Â	7	27,900	22.958 24.484	1.064	1.00	22.55	8
CA	ILE	Â	7	28.084	23,492	-0.574	1.00	22.33	7
CB	ILE	Â	7	27.881	24.146	-1.645 -3.022		22.84 23.95	6
C	ILE	Â	7	28.144	23.175	-3.022 -4.164	1.00	24.20	6
C	ILE	A	7	26.451	24.694	-3.121	1.00	21.72	6
c	ILE	A	7	26.260	25.703	4.232	1.00	20.39	6
C	ILE	A	7	29.365	22.667	-1.611	1.00	22.04	6
Ō.	ILE	A	7	29.318	21.448	1.777	1.00	20.83	8
N	GLN	Ā	7	30.501	23.312	1.364	1.00	22.64	7
CA	GLN	A	7	31,777	22,612	-1.257	1.00	23.44	6
CB	GLN	A	7	32.923	23,597	-1.047	1.00	25.82	6
C	GLN	Α	7	33.158	24.544	-2.211	1.00	29.28	6
C	GLN	A	7	34.326	25.483	-1.984	1.00		6
0	GLN	A	7	35.184	25.241	-1.131	1.00		8
N	GLN	Ā	7	34.369	26.565	2.755			7
С	GLN	A	7	31.730	21.592	-0.122			6
0	GLN	Α	7	32.095	20.428	-0.314			8
N	TYR	Ā	7	31.209	21.984	1.038			7
CA	TYR	Α	7	31,025	21.063	2.151			6
CB	TYR	A	7	30,436	21.773	3.365			6
С	TYR	Α	7	31,303	22.775	4.083			6

င္	TYE	_	1				1.00		_
C			113		24.40	8 5.853	1.00	25.02	2
C	TYR	1	1	32.615	23.03	8 3.717	1.00	25.66	:
CE	TYR	1	1/2	33.382	23.97	0 4.390	1.00		
C2	TYR	1	117	32.835	24.65	1 5.457	1.00		
0	TYR		17				1.00		
C	TYR		_				1.00		
0	TYR	_	_				1.00		
Z	GLY		_					_	_
CA		_		_	_		1.00		
		_	_				1.00		_
Č	GLY		_	28.588			1.00	24.27	_
0	GLY	_		28.290		7 -0.034	1.00	23.78	
N	ILE	IA.	. 7	29.369	18.551	1 -1.219	1.00	25.10	
CA	TILE	-↓△	17	29.975	17.602	2 -2.144	1.00	25.73	
CB	ILE	۵	<u> 17</u>	30.674	18.315	-3.316	1.00		7
C	ILE	LΑ	$\perp 7$	31.383	17.316		1.00		7
С	ILE	ΙA	_ 7	29.645			1.00		7
c	ILE	IA	7	30,230		7	1.00	29.01	1
С	ILE	Ā	7	30.945	16.669		1.00		7
ō	ILE	Ā	7	30.797					+
Ň	VAL	Ā	7		15,447		1.00	24.87	+
ÇA	_	_	_	131.896	17.231		1.00	25.62	4
	VAL	ļ٨	17	32.878	16.438		1.00	25.35	4
<u>CB</u>		₽	17	33.812	17.327		1.00	22.69	4
<u>Č</u>	VAL	ļΔ	17	34.663	16.522		1.00	21.61	1
<u>c</u>	VAL	ĻΑ	17	34.714	18.139	-0.045	1.00	22.34	1
<u>c</u> _	VAL	↓A	17	32,199	15,387		1.00	26.06	l
<u>o_</u>	VAL	ļΑ	17	32.502	14.198	0.786	1.00	27.16	Ι
N	ALA	LA	8	31.232	15.783		1,00	26.43	Τ
CA	ALA	A	8	30.483	14.846		1.00	26.69	T
CB	ALA	A	8	29.549	15.590	3.500	1.00	25.12	t
С	ALA	A	8	29,689	13.857	1.711	1.00	27.31	İ
o_	ALA	A	8	29.503	12.707	2.112	1.00	26.33	t
N	GLY	A	8	29.198	14.295	0.555	1.00	28.24	t
CA	GLY	A	8	28,478	13,434				т
C	GLY	A	8	29.401	12.376	-0.370	1.00	29,83	ŀ
ŏ	GLY	A	8	29.058			1.00	31.54	Ľ
N	VAL	A	8		11.195	-1.014	1.00	32.46	Ľ
CA	VAL		_	30.606	12.785	-1.357	1.00	32.13	Ľ
CB	VAL	ļĄ.	8	31.593	11.855	-1.897	1.00	32.49	Ľ
		ļĄ.	8	32.849	12.576	-2.405	1.00	32.48	Ľ
č	VAL	A	8	33.927	11.590	-2,836	1.00	29.55	Ľ
<u></u>	VAL	A	8	32,485	13,493	-3.570	1.00	30.84	L
	VAL	A	8	31.945	10,798	-0.859	1.00	33,38	L
2	VAL	A.	8	31.960	9.607	-1.179	1.00	34.11	~
L	GLN	A	8	32.121	11.195	0,397	1.00	33.20	
CAL	GLN	Α	8	32,353	10,260	1.485	1,00	33.16	6
CB	GLN	Α	8	32,487	10.995	2.822	1.00	33.36	•
	GLN	Α	8	33,776	11.775	3.007	1.00	34.15	6
	GLN	A	8	33.891	12.385	4.389	1.00	35.18	6
2	GLN	A	8	33,162	12.014	5,309	1.00	35.45	
V	GLN	Α	8	34.810	13.330	4.554			-5
\Box	GLN		_				1.00	35.50	-7
5	GLN	A	8	31.240	9.224	1.602	1.00	33.48	6
_	_	A	8	31,521	8.034	1.758	1.00	33.91	8
1	ALA	Ā	8	29.982	9,655	1.539	1.00	33.54	7
ZΑ	ALA	A	8	28.854	8.740	1.660	1.00	33.80	6
<u>B</u>	ALA	Α	8	27.554	9.509	1.828	1.00	32.23	6
	ALA	Α	8	28.767	7,777	0.484	1.00	34.48	6
	ALA	Α	8	28.464	6.596	0.673	1.00	34.17	8
	MET	A	8	29.032	8.262	-0.724		35.38	7
	MET	A	8	29.047	7,401	-1.902			_
_	MET	Â	8						6
		$\overline{}$		29,234	8.228	-3.172	_		6
	MET	Ă۱	8	27.977	8,960	-3.621			6
	MET	A	8	26,540	7.880	-3.753			1
	MET	Ą١	8	26.317	7.818	-5.528			6
	MET	A.I	8	30.132	6.340	-1.757	1.00	37.28	6

Figure 1 - 5

[1,45								
O N	GL	_	A 8	29.873			1.0		
C/			A 8				1.00		_
Ci			A 8				1.0		
C	GL	_	1 8			-0.925	1.00		
č	GL		1 8				1.00		
ŏ	GL		_				1.00		_
N	GL		_			-0.781	1.00		
Ĉ	GLN	_	_				1.00		
ŏ	GL	_	_			-0.077 -0.293	1.00		_
N	ASP					1.071			_
CA			_			2.171	1.00		_
CE		_	_			3.364	1.00		
c	ASP	_	_			4.627	1.00		_
ŏ	ASP					4.836	1.00		
ŏ	ASP	TA			4.473	5.413	_		
Ç	ASP	TA	_	30.338	3.362	1,785	1.00		
lŏ	ASP	ΠÃ	_		2,228	2.261	1.00		_
N	SER	TA	l s	29.341	3,717	0.987	1.00		
CA	SER	Ä	8	28.268	2.824	0.605	1.00		_
CB		TA	18	27.186	3.609	-0.151	1.00		_
0	SER	LA	8	27.641	3.995	-1.435	1.00		6
Č	SER	Ä	8	28.687	1.626	-0.235	1.00		6
ŏ	SER	Ā	8	28.158	0.529	-0.031	1.00		8
N	GLY	A	8	29.572	1.835	-1.203	1.00		7
CA	GLY	ĪĀ	8	29.933	0.745	-2.114	1.00	47.74	6
C	GLY	Ā	8	28.791	0.593	-3.124	1.00		6
0	GLY	IA	8	28.100	-0.420	-3.181	1.00	50.71	18
N	LEU	A	9	28.528	1.689	-3.826	1.00	51.03	17
CA	LEU	A	9	27.506	1.717	4.861	1.00		6
CB	LEU	Ā	9	26.528	2.868	4.677	1,00	54.13	6
C	LEU	A	9	25.057	2.570	4.394	1.00	54.85	6
C	LEU	A	9	24.486	1.519	-5.334	1.00	54,50	6
C	LEU	A	9	24.866	2.145	-2,943	1.00	55.70	6
C	LEU	A	9	28,206	1.842	-6.216	1.00	53.14	6
0	LEU	A	<u> 9</u>	29.081	2.691	-6,384	1.00	52.83	8
N	GLU	A	9	27.909	0.911	-7.112	1.00	54.36	7
CA	GLU	IA	9	28.436	1.005	-8,474	1.00	55.52	6
CB	GLU	IA	9	28,912	-0.344	-8.989	1.00	60.57	6
C	GLU	Α	9	30.077	-0.937	-8.213	1.00	66.39	6
C	GLU	IA	9	31.198	-1,433	-9.104	1.00	70.22	6
0	GLU	I A	9	30.912	-2.114	-10.113	1.00	71.43	8
0	GLU	A	9	32.375	-1.147	-8.797	1.00	72.65	8
C	GLU	A	9	27.323	1.595	-9,339	1.00	54.98	6
0	GLU	A	9	26.219	1.047	-9.355	1.00	54.62	8
N	ILE	A	9_	27.578	2.756	-9.933	1.00	54.70	7
CA	ILE_	A.	9	26.552	3.400	-10.753	1.00	54.44	6
CB	ILE	A	9	26.540	4.926	-10,595	1.00	53.38	6
C	ILE	A	9	25.665	5.601	-11.642	1.00	52.58	6
<u>C</u>	ILE	ļĄ.	9	26.039	5,304	-9.195	1.00	53.52	6
Č	ILE	A	9	27.133	5.719	-8.239	1.00	53.86	6
č	ILE	A	9	26.728	2.992	-12.212	1.00	54.48	6
9	ILE	A	9	27,718	3.308	-12.864	1.00	53.82	8
N	THR	A	9_	25.758	2.226	-12.698	1.00	55.02	7
CA.	THR	A	9	25.753	1.743	-14.070	1.00	56.18	6
CB	THR	A	9	25.556	0.214	-14.128	1.00	53.64	6
9	THR	A	9	24.276	-0.107	-13.563	1.00	51.69	8
<u> </u>	THR	A	9	26.639	-0.524	-13.365	1,00	51.89	6
읏	THR	A.	9	24.612	2.378	-14.854	1.00	57.86	6
0	THR	A	9	23.657	2.897	-14.274	1.00	57.93	<u> </u>
N CA	GLU	Ą	9	24.672	2.301	-16.180	1.00	59.43	7
_	GLU	A	9	23.635	2.847	-17.050	1.00	60.73	6
CB	GLU	A	9	23.989	2.595	-18.517	1.00	64.29	6
ب	GLU	A	9	22.926	3.011	-19.515	1.00	67.99	6

C	GLL	ī	1 9	23.353	4.138	-20.43	1 1.00	70.30	5 1
0	GLU	1 /	1 9		5.077	-20.63			
0	GLU		_		4.092	-20.959			
C	GLU	_	_		2.275	-16.72			_
0	GLU		_		2.969				
N	GLU	_	_			-16.829			
CA		_		·	1.025	-16.283			_
_		_	_		0.362	-15.864			
CB		_	_	21,143	-1.161	-15.975			
C	GLU	_	_	20.576	-1.748	-17.254	1.00	70.30	Ц
C	GLU	I A	19	21,426	-2.860	-17.834	1.00	73.39	П
LQ_	GLU	LA	9	21.214	-4.032	-17.458	1.00		
0	GLU	A	و ا	22,302	-2.564	-18.674			_
C	GLU	A	9	20,570	0.709	-14.432		57.78	
0	GLU	7		19.505	0.300	-13.964		58.25	
N	ASN	Ā	9	21.403	1.442				
CA		_	_			-13.708		55,25	
	ASN	44	19	21.154	1.857	-12.345		52.48	_
CB		ļ۵	19	22,436	1.692	-11.509		52.33	4
Ç.	ASN	↓Λ	19	22,256	0.836	-10.279	1.00	52.34	⊥
0	ASN	ДA	9	21.147	0.414	-9.952	1.00	53.95	I
N_	ASN	ļΑ	9	23,355	0.564	-9.584	1,00	52.48	Τ
С	ASN	I A	9	20.747	3.320	-12,209		50,29	
0	ASN	LA	9	19,918	3.684	-11,376		49.91	1
N	ALA	Ā	9	21.390	4.190	-12.974		48,07	t
CA	ALA	A	9	21.232	5.632	-12.898	_		~
CB	ALA	A	9	21.670	6.263			46.01	ť
C	ALA	A	19	,		-14.219		45.08	+
ŏ		_		19.837	6.108	-12.535	1.00	44.36	44
	ALA	ļĄ	9	19,606	6.801	11.545	1.00	43.66	4
N.	THR	ļΑ	19	18.847	5.727	-13.317	1.00	42.87	Ľ
CA	THR	A	19	17.439	6.032	-13.183	1.00	41.55	L
<u>CB</u>	THR	A	19	16,725	5.210	-14.293	1.00	41.55	I
<u>o</u>	THR	A	19	16.719	6.004	-15.494	1.00	40.58	I
C	THR	A	9	15,307	4.783	-13,985	1.00	41.61	Te
C	THR	A	9	16.812	5.788	-11.826	1.00	40.49	T
0	THR	A	9	15,785	6.415	-11.520	1.00	40.45	Ė
N	ARG	A	9	17.337	4.908	-10.983	1.00	39.59	1
CA	ARG	Α	9	16.774	4.614	-9.680	1.00	38.37	7
CB	ARG	Ä	9	16.709	3.094				Ľ
Ç	ARG	A	9	15.974	2.321	-9.462	1.00	38.52	١
č	ARG	_	_			-10.544	1.00	37.03	6
		À	9	14.479	2,597	-10.499	1.00	37.03	16
N	ARG	A	9	13.865	2.041	-9.300	1.00	38,20	<u> </u>
CZ	ARG	A	9	12,707	2.430	-8.785	1.00	38.63	6
N	ARG	Α	9	12.002	3.397	-9.357	1.00	38.37	7
М	ARG	Α	9	12.248	1.845	-7,686	1.00	38.97	7
c l	ARG	Α	9	17.523	5.238	-8.512	1.00	37.78	6
0	ARG	A	9	17.180	4.972	-7.356	1.00	38.19	8
И	ILE	Α	1	18.586	5.988	-8.777	1.00	37.13	7
CA	ILE	Ā	î	19.341	6.642	-7.716	1.00		6
СВ	ILE	Ā	î	20.835	6.276			36.46	
c l	ILE	A	ì			-7,700		38.03	6
ž I	ILE	A		21.468	6.737	-6,389		36.28	6
		,	+	21.072	4.776	-7.890		37.64	6
2	ILE	A	1	22.387	4.447	-8.564		38.13	6
2+	ILE	A	1	19.222	8.160	-7.839	1.00	35.71	6
2	ILE	Α	1	19.502	8.713	-8.904	1.00	35.52	8
	GLY	A	1	18.822	8.819	-6.756	1.00	34.95	7
	GLY	Α	1	18,705	10.273	-6.771		34.19	6
	GLY	A	1	19,233			1.00		6
	GLY	A	1	20.044					8
7	ALA	Ä	i	18.740					
		_				-5.193			7.
	ALA	Ą	-1	19.184					6
_	ALA	<u> </u>					1.00	30.70	6
	ALA	A	1			-3.390	1.00	28.20	6
<u> </u>	ALA	A	1	17.177	14.224	4.008			8
	ATAI	A	1						7
T.	ALA	െ	به	10.230	10.500	- <u>6.03</u> 0 1	4.00 1 4	40.40	

_									
Ç		_	_				1.00		
ငြ	ALA		_	18.266			1.00		
lö	ALA		_	18.438			1.00		
Й	ILE	4		18.951	16.600		1.00		_
C		4	_	19.890			1.00		_
S		- 14	_	21.308	17.361	-0.609	1.00		6
먇	ILE	14	_	22.263	18.211	0.218	1.00	19.61	- 6
C	ILE	4	4.	21.846	15,931	-0.727	1.00	19.04	- 6-
C	_	14	41	22.912	15,769		1.00	14.64	6
10	ILE	_ A _ A	+	19,430	18.837		1.00	22.33	- 6
N	GLY		1	19.185	19.485	-0.912	1.00	22.91	8
CA			1	19.398 18.983	19.363		1.00	21.49	7
C	GLY		1	19.985	20.732	1.546 2.326	1.00	21.32	6
ŏ	GLY		li	21.116	21.201	2.619	1.00	20.74	6
N	SER	TÃ	lî	19.526	22.767	2.663	1.00	22.27	18
CA		Ä	Τî	20.263	23,779	3,400	1.00	22.50	6
CE		Ā	1	21.306	24.448	2.511	1.00	22.72	6
O	SER	Ā	Τî	22.078	25.395	3.224	1.00	21.91	8
C	SER	IA	ī	19.248	24.811	3.895	1.00	22.77	6
0	SER	A	li	18.261	25.058	3.198	1.00	22.73	8
N	GLY	IA	1	19.473	25.393	5.062	1.00	22.84	7
CA	GLY	IA	1	18.557	26.368	5.619	1.00	23.14	6
С	GLY	I.A	l	18.683	27,762	5.036	1.00	23.90	6
0	GLY	A	l 1	17.665	28.437	4.846	1.00	23.26	8
N	ILE	A	1	19.904	28,234	4.800	1.00	24.27	7
CA	ILE	A	1	20.130	29.582	4.284	1,00	25.21	6
CB	ILE	A	1	20.904	30.424	5.317	1.00	28.84	6
C	ILE	A	1	21.399	31.746	4.750	1.00	29.40	6
C	ILE	A	11	20.025	30.718	6.544	1.00	30.94	6
C	ILE	A	11	20.804	31.053	7.796	1.00	32.04	6
IC.	ILE	A	1	20,839	29.580	2.938	1.00	25.28	6
0	ILE	ĮA.	11	20.712	30.527	2.153	1.00	25.17	8
N	GLY	ļĀ	1	21.587	28.527	2.623	1.00	25.28	171
CA	GLY	ļĄ	1	22.284	28.453	1.345	1.00	25,24	6
F	GLY	ļĄ.	1	23.457	29.418	1.274	1.00	25.63	6
6	GLY	ļĄ.	11	24.083	29.755	2,279	1.00	25.92	8
CA	GLY	A	1	23,862	29,789	0.062	1.00	25.45	171
C	GLY	A	1	25.084 25.213	30,496	-0.218	1.00	26.20	6
ŏ	GLY	Â	1	25.522	31.934 32.817	0.223 -0.585	1.00	27.33	6
N	LEU	A	1	25,181	32.186	1.526	1.00	27.71 27.58	7
CA	LEU	Ä	î	25.252	33.513	2.104	1.00	26.89	6
СВ	LEU	A	î	25.045	33.438	3.622	1.00	30.54	6
C	LEU	A	ī	23.844	34.161	4.225	1.00	33.04	6
C	LEU	A	i	23,965	34.212	5.744	1.00	34.23	6
C	LEU	A	1	23.678	35,565	3,670	1.00	31.51	6
C	LEU	A	1	26.579	34.203	1.822	1.00	25.55	6
0	LEU	A	1	26.623	35,387	1.493	1.00	24.44	8
N	GLY	Α	ı	27.668	33.453	1,966	1.00	24.93	7
CA	GLY	A	1	29.006	33.973	1.717	1.00	24.16	6
C	GLY	A	1	29.109	34.602	0.333	1.00	23.21	6
0	GLY	A	1	29.471	35,771	0.215	1.00	22.61	8
N	LEU	A	1	28,675	33.879	-0.696	1.00	23.12	7
CA	LEU	A	1	28.747	34,359	-2.069	1.00	23.32	6
CB	LEU	A	1	28,713	33.180	-3.045	1.00	21.08	6
C.	LEU	A	1	30.015	32.880	-3.794	1.00	22,62	6
Ç.	LEU	Α	1	31.248	33.029	-2.917		21.29	6
C	LEU	A	1	29.986	31.481	4.396		19.43	6
Č	LEU	A	1	27.719		-2.403		23.44	6
0	LEU	A	1	27.980	36.253	-3.288		23.38	8
N	ILE	A	1	26.586		-1.707		22.94	7
CA	ILE	A	4	25.596		-1.959		22.61	6
CB	ILE	ΑΙ	ı	24.235	36.235	-1.314	1.00	22.78	6

[0	1		т.	1					
ŀĈ	ILE	_					1.00		_
င်	ILE	- 4	_				1.00	21.1	
Ç	ILE	- 1	_				1.00	20.8	
ြင့	ILE	_	_				1.00	22.38	_
Q	ILE	- 4	$\overline{}$	25,969			1.00	21.79	_
N	GLI		_	26.848			1.00	22.40	_
LC/		_	_	27.490	39,019		1.00	23.90	
CI			$\overline{}$	28.076	38.737		1.00	23.43	
Č	GLU		_	27.029	38.487		1.00	24.28	
ŏ	GLU		$\frac{\downarrow 1}{1}$	27.682	38.221	4.010	1.00	26.12	_
8	GLU		_	27.217	37.322	4.736	1.00	24.90	_
Ċ	GLL		_	28,671	38.918	4.318	1.00	28.72	
ŏ	GLU		1	28.575	39.538	-0.727	1.00	24.96	
N	GLU		4	28.586	40.724	-1.050	1.00	25.66	_
C.A			1	30.525	38.665	-1.189	1.00	26.22	
CE	_	_	1	31.361	39.052 37.838	-2.107	1.00	27.40	
C	GLU		Tî	32.500	38.186	-2.520 -3.466	1.00	29.69	_
Č	GLU		1	33.298	36.974	-3.901	1,00	36.82	
ō	GLU	_	lî	34.033	36.420	-3.058	1.00	39.85	
lŏ	GLU		٦î	33.191	36.575	-5.079	1.00	42.55	
C	GLU	_	1	29.968	39.727	-3.358	1.00	43.21	18
O	GLU		Î	30.345	40.847	-3.698	1.00	27.74 27.49	8
N	ASN	_	lî	29.038	39.051	4.026	1.00	27.54	7
CA		IA	lì	28.397	39.569	-5.223	1.00	27.47	6
CB		A	1	27.450	38.524	-5,823	1.00	25.94	6
C	ASN	A	li	28.191	37,404	-6.525	1.00	24.69	6
0	ASN	A	1	28.773	37.602	-7.591	1.00	25.98	8
N	ASN	A	1	28.168	36.214	-5,940	1.00	22.87	7
C	ASN	TA	1	27.639	40.862	-4.958	1.00	27.92	6
0	ASN	A	1	27.674	41.763	-5.801	1.00	27.84	8
N	HIS	IA	li	26,965	40.976	-3.811	1.00	28.73	7
CA	HIS	Α	1	26.266	42,219	-3.503	1.00	29.88	6
CB	HIS	A	11	25,334	42,129	-2.295	1.00	26.18	6
C	HIS	IA.	1	24,463	43.353	-2.216	1.00	23.31	6
C	HIS	↓A	1	24.431	44,382	-1.343	1.00	22.00	6
N	HIS	IA.	11	23,484	43,614	-3.151	1.00	23.32	7
CE	HIS	ĮA.	1	22,881	44.750	-2.852	1.00	23.34	6
N	HIS	I.A.	1	23,438	45,235	-1.755	1.00	23.46	7
C_	HIS	ļĄ.	11	27,290	43,339	-3.321	1.00	31,26	6
O N	HIS	ļĄ.	1	27,141	44.417	-3.898	1.00	31,42	8
CA	THR	A	1	28.382	43.048	-2.620	1.00	32.61	7
CB	THR	A	1	29.466	44.011	-2.448	1.00	33.99	6
O	THR	A	1	30.580	43.428	-1.562	1.00	34.40	6
C	THR	A	1	30.011 31.707	43.087	-0.288	1.00	33.02	8
č	THR	A	1	30.018	44,425	-1.345	1.00	35.33	6
ŏ	THR	A	1	30.148	44.464 45.668	-3.792		34.89	6
N	SER	A	1	30.289	43.527	-4.033 -4.695		35,35	8
CA	SER	A	1	30.726	43.862	-6.047		35.14 35.99	
СВ	SER	Ā	î	30.916	42.588	-6.870		35.99 35.21	6
0	SER	A	ì	31.858	41.733	-6.236		37,30	8
C	SER	Ā	ī	29.734	44.807	-6.711		37.29	6
0	SER	A	1	30.092	45.918	-7.100		37.19	8
N	LEU	A	1	28.464	44,426	-6.777		38.61	7
CA	LEU	A	1	27.411	45.250	-7.350		40.26	6
CB	LEU	A	1	26.054	44.565	-7.172		39.02	6
Ç	LEU	A	i	24.786	45.386	-7.405	2.00	37.46	허
С	LEU	Α	1	24.538	45.621	-8,887		35.37	6
C	LEU	Α	1	23.583	44.700	-6,770		34.67	6
C	LEU	Α	ī	27.377	46.657	-6.775		2.20	6
0	LEU	Α	1	27.267	47.624	-7.535		2.75	8
N	MET	A	ı	27.473	46.815	-5.461		4.22	7
CA	MET	Α	1	27.448		4.826	$\overline{}$	6.59	6

_													
C			A	1	27.43	5 47.98	4	-3.301	\Box	1.00	52.0	3 [6
C	ME	T.	A	1	26.06	7 48.22	5	-2.680		1.00	57.9	3	6
SI	D ME	r L	ΔĹ	1	26.084	48.04	9	-0.886	\Box	1,00	64.2	9	1
C	E ME	r .	A.	1	26.40	7_ 49.73	9	-0.383	_	1.00		_	6
C	ME'	r L	A.	1	28.613	49.01	2	-5.246	П	1.00	47.0	_	6
0	ME	r	A	1	28.443	50.22	0	-5.426	Т	1.00	47.3		8
N	ASN		A.	ī	29.799		3	-5.396	╛	1.00			7
C/			ΑT	1	30.983			-5.779	寸	1.00	_	_	6
CI	BASN		A.I	ī	32.214			-5.088	_	1.00			6
C	ASN		AT.	ī	32.174		_	-3.581		1.00			<u>5</u>
0	ASN	1 /	VI.	1	32.794			-2.904	_	1,00			3
N	ASN			ī	31.462			-3.037	_	1.00		_	<u>,</u> 7
C	ASN		_	1	31.255			-7.277		1.00			5
0	ASN		_	ī	32,177	49.91		-7.685		1.00			
N	GLY		_	ī	30.574			-8.072		1.00		_	
CA				ì	30.922	48.253		-9.474		1.00	43.33	_	-
C	GLY			î	29.781	48,197		-10.464	_	1.00		_	
ō	GLY		_	ì	30.035	48.292	_		_		42.25		
N	GLY	_	_	ì	28.543	48.053	_	-11.67 -10.006		1.00 1.00	42.48		
CA	GLY		_	l	27.409	47.945	_	·10.932	_				_
C	GLY	A	_	ı	27.225	46.464	_				39.64	_	
ō	GLY	Ā	_		28,002	45.627	_	-11.262		.00	38.72		_
N	PRO	A			26.237	46.137		-10.801 -12,085			38.34		
C	PRO	Ā		_	25.259	47.111			_	.00	38.22		_
CA	PRO	TA			25.895			-12.638	_	.00	37.72	16	_
CB		IA	_	_	24.527	44.772		·12.416		.00	38.34	16	
C	PRO	A			24.423	46,282		·13.095		.00	38.14	6	
Č	PRO	TA	T	_	26.854	43.988		13.571			37.58	16	_
lŏ	PRO	TÃ	+	_	26,795	42.750		13.281	41		39.14	16	
N	ARG	TÂ		_	27.801	44.631	+	<u>-13.297</u>		.00	38.94	18	ᅥ
CA	ARG	TA	1		28.785	43.959	+	<u>-13,949</u> -14,785		.00	40.36	7	⊣
CB		TA	1;	٦	29,455	44.970	_			.00	41.09	16	┥
C	ARG	Ā	Ti.	7	28.562	45.416	+	·15.724		.00	46.18	16	Н
C	ARG	Â	Ti.	7	29.350	45.527		-16.872 -18.166		.00 .00	50.28	16	┥
N	ARG	TÂ	Τî	7	28.796	46.521		·19.076		_	53.24	6 7	4
CZ	ARG	A	1	7	29.506	47.462	┰	-19.690	_	.00	55.29	_	┥
N	ARG	ĪÂ	Ti	┪	30.816	47.556	_	-19.690 -19.497	_	.00	55.01 55.03	7	┥
N	ARG	Ā	Lì	+	28.905	48.318		-19.497 -20.505		.00	55.60	7	4
C	ARG	Â	Τî	+	29.845	43.225		-20.505 -13.977		.00		$\overline{}$	4
ŏ	ARG	Ä	1	7	30.548	42.358		-14.500	_		40.64	6	4
N	LYS	Â	Î	+	29.974	43.549		12.695		00	40.85 39.68	<u>8</u> 7	-
CA	LYS	A	Τì	+	30.926	42.913	_	11.804	_	_	39.19	_	4
CB	LYS	Â	li	+	31.481	43.917		10.789		00		6	1
C	LYS	A	1	†	32.320	45.016		11.425	_	00	42.97 47.77	6	┪
Č	LYS	A	lî	_	33.497	45.393		10.539	_	00		6	4
CE	LYS	Â	î		34.820	45,185		11,258	_	00	52.40 54.77	6	1
NZ	LYS	A	li		35.931	44.909		10.304	_	00		6	+
C	LYS	Ā	li		30,302	41.719	7-	11.086	_	00	56,71 37.56	6	ł
ŏ	LYS	Ā	Î		30.981	41.025		10.330	_	00	37.63	8	┨
N	ILE	Ā	î		29.011	41.485		11.305	_	00	35.54	7	1
CA	ILE	A	î	_	28.334	40.336	_	10.731	_	00		_	1
СВ	ILE	Â	î	_	26.801	40.387	_	10.856	_	00	33.68 32.19	6	1
C	ILE	A	î		26.176	39.099		10.324	_	_		6	ł
č	ILE	A	î		26.240	41.601				00	29.64	6	1
Č	ILE	A	ì		24,751		$\overline{}$	10.113	_	00	30.24	6	1
č	ILE	A	1	_	28.840	41.810 39.071		10.277		00	29.97	6	1
ŏ	ILE	A	1		28.713			11.427	_	00	32.94	6	1
N	SER	A	i	_		38.917		12.639	_	00	33.73	8	1
CA	SER	A	1		29.406 29.892	38,170		10.638	1.0	$\overline{}$	32.07	7	ł
CB		A	1	_		36.905		11,172	1.0		31.05	6	ł
0	SER		_		30.316	35.998		10.011	1.0	_	27.43	6	l
c	SER SER	A	1		30.212	34.634		10.380	1.9		29.41	8	
ŏ		A	1	7-	28.797	36.224		1.978	1.0		30.95	6	
И	SER	A	1	7	27.666	36.067		1.516	1.0	_	30.37	8	
7.4	PRO I	Α	1	14	9.168	35.630	<u>.</u>]	<u> </u>	1.0	00 1	31.19	7	

C	PRO		A	1 30.522	25 701	-			_
C		_		1 30.522 1 28.262			_		_
CI		_		29.075					_
C	PRO	_	$\overline{}$	***		_	_	_	_
C		_	_						
	PRO	_	1					_	_
10	PRO	_						30.42	ᆜ
N	PHE	_	_	28.418	33.122	-12.205	1.00	29.31	
CA	PHE	14	\Box	27.966	31.998	-11.409	1.00	28.57	7
CE	PHE	⊥.	$\perp \perp_1$	29.165	31.134	-10.994	1.00		7
C	PHE	I	1	30.000					
C	PHE	\perp	ΛĪ		31.197				7
C	PHE	_	_		29.828				+
CE		_	7		30.816			_	_
CE		_	_						
CZ		_	_		29.444				7
		_	$\overline{}$	31.539	29.939				4
Ç.	PHE	-∤∆		27.152	32.407		1.00	27.24	1
0	PHE	40	_	26.811	31.525	-9.391	1.00	26.69	1
N	PHE	هد	41	26,728	33,662	-10.062	1,00	26.22	I
LCA	PHE	ه ا	\perp_1	25.921	34.075	-8.923	1.00		T
CB	PHE	IA	\Box 1	25.261	35.452	-9.115	1,00	28,07	İ
С	PHE	IA	1	24.327	35.782	-7.976	1.00	29.48	t
C	PHE	A	1	24.822	36.022	-6.707	1.00	30.09	_
Č	PHE	Ā	lî	22.957	35.816				+
CE		Ā	lî			-8.173	1,00	30,82	+
CE	PHE		_	23.971	36.306	-5.657	1.00	31.10	4
	1	۱ ۸	+:	22,102	36.097	-7.126	1.00	32.04	Ψ
CZ	PHE	ļĄ	+1	22,608	36.346	-5.865	1.00	31.21	L
č	PHE	ļΔ	+1	24.866	33.039	-8.545	1.00	25.76	¥
0	PHE	I.A.	1	24,956	32.446	-7.469	1.00	25.97	Ŀ
Ŋ	VAL	ĮA,	11	23.859	32.828	-9.381	1.00	25.35	Ŀ
CA	VAL	ļΔ	11	22.756	31.927	-9.077	1.00	24.82	1
<u>CB</u>	VAL	I.A.	11	21.736	31.901	-10,235	1.00	22.95	I
C	VAL	LA	1	20.575	30.962	-9.955	1,00	24.37	16
C	VAL	A	1	21.217	33.306	-10.508	1.00	22.82	Ī
Ç	VAL	A	$\overline{1}$	23.164	30.517	-8.695	1.00	25.43	Ì
0	VAL	Α	1	22.904	30.055	-7.578	1.00	26.10	_
N	PRO	A	lî	23.845	29.785		1.00		1.5
Ċ	PRO	Ä	lî	24.205		-9.572		25.98	1
CA	PRO	A	_		30.252	-10.939	1,00	25.42	٤
			1	24.246	28.412	-9.343	1.00	25.35	L
CB	PRO	A	1	24.917	27.980	-10.644	1.00	25.44	Le
<u>c</u>	PRO	IA.	11	24,556	28,987	-11.666	1.00	25.60	6
<u>C</u>	PRO	A.	1	25,181	28,166	-8.174	1.00	25.15	6
0	PRO	A	1	25.336	27.030	-7.712	1.00	24.38	8
N	SER	A	1	25.873	29.189	-7.698	1.00	25.35	7
CA	SER	Α	1	26.777	29.098	-6,572	1.00	25.73	6
CB	SER	A	1	27.891	30.138	-6.762	1.00	25.82	6
0	SER	A	ī	27.404	31,448	-6.544	1.00	27.24	8
C	SER	A	î	26.093	29.358	-5.237	1.00	26.25	6
<u>o</u>	SER	Ā	î	26.650	29.026	-4.187			_
Ň	THR	Ā	î	24.906			1.00	26.94	8
CA		_			29.957	-5.255	1.00	26.36	7
	THR	Ą.	ļ.	24.197	30.272	-4.027		26.23	6
CB	THR	Ā	1	23,792	31.770	4.031		24.90	6
잌	THR	Ą	1	22.987	32.023	-5.189	1.00	25.09	8
<u>c </u>	THR	A	ı_	25.015	32.666	-4.056	1.00	25.45	6
	THR	A.	1_	22.938	29,480	-3,728	1.00	25.83	6
2	THR	Α	1	22.611	29.341	-2.541		26.06	8
V	ILE	A	1	22.171		4.734	1.00		7
	ILE	A	1	20.862					_
	ILE	Á	i	19.937					6
									<u>6</u>
	ILE	쉬	1	19.648	30.010				6
	ILE	Ą	1	20.538			1.00	29.07	6
	ILE	A.	1	19.614	27.762	-8.092	1.00	31,74	6
	ILE	Αļ	1	20,950	27.095	3.849			6
1	ILE	A	1	21.805					8
	VAL					2.945			_

CB VAL A 1 19.895 25.653 2.121 1.00 25.35 6 C VAL A 1 18.093 24.469 0.709 1.00 29.41 6 C VAL A 1 18.966 26.764 0.133 1.00 28.85 6 C VAL A 1 19.959 24.312 2.815 1.00 25.00 6 C VAL A 1 19.959 24.312 2.815 1.00 25.00 6 C VAL A 1 19.959 24.312 2.2815 1.00 24.69 8 N ASN A 1 19.368 24.40 3.991 1.00 24.21 7 CA ASN A 1 19.368 24.140 3.991 1.00 24.21 7 CA ASN A 1 18.265 22.748 5.540 1.00 22.14 6 C ASN A 1 18.291 24.859 6.633 1.00 22.258 6 C ASN A 1 18.291 24.859 6.633 1.00 22.258 6 C ASN A 1 18.291 24.859 6.633 1.00 22.55 8 C ASN A 1 18.291 24.859 6.633 1.00 22.55 8 C ASN A 1 18.291 24.859 6.633 1.00 23.79 8 ASN A 1 18.291 24.859 6.633 1.00 23.79 8 ASN A 1 18.291 24.859 6.633 1.00 23.79 8 ASN A 1 26.631 23.019 7.933 1.00 22.17 7 C ASN A 1 20.613 22.517 5.443 1.00 26.58 6 C ASN A 1 22.850 23.371 5.435 1.00 25.653 7 C ASN A 1 22.850 23.371 5.435 1.00 25.653 7 C ASN A 1 22.850 23.371 5.435 1.00 25.653 7 C ASN A 1 22.851 23.647 24.458 6.529 1.00 32.05 6 C MET A 1 22.364 24.205 9.040 1.00 35.93 1 C MET A 1 23.777 22.099 5.553 1.00 27.93 6 C MET A 1 23.777 22.099 5.553 1.00 27.33 6 C MET A 1 23.358 21.692 6.317 1.00 27.33 6 C WAL A 1 24.425 20.637 3.771 1.00 27.35 6 C WAL A 1 24.425 20.637 3.771 1.00 27.35 6 C WAL A 1 24.341 20.475 -2.251 1.00 27.90 6 C WAL A 1 24.393 18.059 6.723 1.00 25.87 6 C WAL A 1 22.891 19.58 4.355 1.00 25.87 6 C WAL A 1 22.263 19.158 4.356 1.00 25.87 6 C WAL A 1 22.26	_			_						
C	_			-						
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O VAL A 1 20.571 23.385 -2.257 1.00 24.69 8 N ASN A 1 93.681 24.140 -3.991 1.00 24.217 6 CA ASN A 1 93.577 22.841 4.651 1.00 24.07 6 CB ASN A 1 18.105 22.748 5.540 1.00 22.88 6 O ASN A 1 18.291 24.859 -6.633 1.00 22.258 6 O ASN A 1 20.613 22.517 -5.443 1.00 24.43 6 O ASN A 1 20.613 22.517 -5.443 1.00 23.79 8 C ASN A 1 22.630 23.139 -6.196 1.00 26.58 6 CB MET A 1 22.851 25.227 -7.699 1.00<				_				1.00	28.85	6 6
N ASN A 1 19.368 24.140 3.991 1.00 24.21 7 CA ASN A 1 19.357 22.841 4.651 1.00 24.07 6 CB ASN A 1 18.226 23.637 6.762 1.00 22.38 6 O ASN A 1 18.226 23.637 6.762 1.00 22.88 6 O ASN A 1 18.291 24.859 6.633 1.00 22.25 8 N ASN A 1 18.291 24.859 6.633 1.00 22.25 8 N ASN A 1 18.291 24.859 6.633 1.00 22.25 8 N ASN A 1 18.291 24.859 6.633 1.00 22.27 7 C ASN A 1 12.0613 22.517 5.443 1.00 24.43 6 O ASN A 1 20.613 22.517 5.443 1.00 24.43 6 O ASN A 1 22.630 23.371 5.435 1.00 25.03 7 N MET A 1 21.630 23.371 5.435 1.00 25.03 7 N MET A 1 22.850 23.139 6.198 1.00 25.98 6 C MET A 1 22.850 23.139 6.198 1.00 25.98 6 C MET A 1 22.851 25.227 7.629 1.00 27.98 6 C MET A 1 23.951 23.688 9.643 1.00 36.90 6 C MET A 1 23.955 23.688 9.643 1.00 36.90 6 C MET A 1 23.555 21.602 6.317 1.00 27.33 6 O MET A 1 23.558 21.699 4.337 1.00 27.33 6 O MET A 1 23.558 21.699 4.337 1.00 27.33 6 C WAL A 1 24.434 20.475 -2.251 1.00 27.95 6 C VAL A 1 24.341 20.475 -2.251 1.00 27.95 6 C VAL A 1 23.973 19.328 4.355 1.00 25.87 6 C VAL A 1 22.528 19.352 1.7657 1.00 25.87 6 C VAL A 1 22.528 19.352 1.7658 1.00 25.87 6 C VAL A 1 22.528 19.352 1.7658 1.00 25.87 6 C VAL A 1 22.528 19.352 1.765 1.00 25.87 6 C VAL A 1 22.528 19.352 1.765 1.00 25.87 6 C VAL A 1 22.528 19.352 1.765 1.00 25.87 6 C VAL A 1 22.528 19.352 1.765 1.00 25.87 6 C VAL A 1 22.528 19.358 1.504 25.87 6 C VAL A 1 22.528 19.358 -4.551 1.00 25.87 6 C ALA A 1 22.699 17.948 1.378 1.00 27.02 7 CA ALA A 1 22.699 17.948 1.378 1.00 25.54 8 N GLY A 1 22.691 19.270 7.275 1.00 26.54 8 N GLY A 1 22.691 19.270 7.275 1.00 25.54 8 N GLY A 1 22.698 13.699 6.733 1.00 25.54 8 N GLY A 1 22.699 17.948 1.338 1.00 25.54 8 N GLY A 1 22.699 17.948 1.338 1.00 25.54 8 N HIS A 1 26.696 17.528 1.731 1.00 25.54 6 C HIS A 1 26.696 17.528 1.731 1.00 25.54 6 C HIS A 1 25.696 15.347 7.568 1.00 33.88 7 C HIS A 1 25.696 1.5347 7.568 1.00 33.88 7 C HIS A 1 25.696 1.5347 7.568 1.00 33.88 7 C HIS A 1 25.696 1.5347 7.568 1.00 33.88 7 C HIS A 1 25.696 1.5347 1.00 30.00 32.66 6 C LEU A 1 25.696 1.5347 1.00 30.00 33.88 6 C LEU A 1 25.696 1.5	_		_	_	19.959	24.312	2 -2.815	1.00	25.00) 6
CA ASN A 1 19.357 22.841 4.651 1.00 24.07 6 CB ASN A 1 18.105 22.748 5.540 1.00 22.14 6 C ASN A 1 18.226 23.637 6.762 1.00 22.88 6 O ASN A 1 18.231 24.859 6.633 1.00 22.25 8 N ASN A 1 18.231 24.859 6.633 1.00 22.17 7 C ASN A 1 18.316 23.019 7.933 1.00 22.17 7 C ASN A 1 20.613 22.517 5.443 1.00 24.43 6 O ASN A 1 20.701 21.119 6.008 1.00 23.79 8 N MET A 1 21.630 23.371 5.435 1.00 25.73 7 CA MET A 1 22.850 23.139 6.196 1.00 26.58 6 C MET A 1 22.351 23.688 6.529 1.00 27.98 6 C MET A 1 23.547 24.458 6.529 1.00 32.05 6 C MET A 1 23.951 23.688 9.643 1.00 36.90 6 C MET A 1 24.655 21.602 6.317 1.00 27.33 6 C MET A 1 24.455 21.602 6.317 1.00 27.33 6 C MET A 1 24.455 20.637 3.771 1.00 27.33 6 C MET A 1 24.455 21.602 6.317 1.00 27.33 6 C MET A 1 24.455 21.602 6.317 1.00 27.33 6 C MET A 1 24.455 21.602 6.317 1.00 27.33 6 C MET A 1 24.455 21.602 6.317 1.00 27.33 6 C MET A 1 24.455 21.602 6.317 1.00 27.35 6 C WAL A 1 24.425 20.637 3.771 1.00 27.35 6 C VAL A 1 24.588 19.592 1.785 1.00 25.87 6 C VAL A 1 24.698 21.767 1.536 1.00 25.87 6 C VAL A 1 22.698 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.698 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.698 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.698 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 25.87 6 C WAL A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.59 4.387 1.00 25.87 6 C WAL A 1 22.668 19.59 4.387 1.00 25.87 6 C WAL A 1 22.668 19.59 1.00 30.044 7 CA GLY A 1 22.658 19.59 1.00 30.044 7 CA HIS A 1 22.658 19.69 4.300 1.00 28.66 6 C GLY A 1 22.659 15.537 1.00 25.54 8 N GLY A 1 22.659 15.537 1.00 25.54 8 N GLY A 1 22.658 19.59 1.00 3.59 16 C HIS A 1 27.723 11.21 8.124 1.00 30.77 6 C HIS A 1 27.456 1.00 3.00 3.04 6 C LEU A 1 26.696 15.68 5.555 1.00 33.94 6 C LEU A 1 26.696 15.489 3.009 1.00 33.99 6 C LEU A 1 26.696 15.489 3.009 1.00 34.56 6 C LEU A 1 26.696 15.480 3.009 1.00 34.56 6 C LEU A 1 26.		VAL	44	41	20.571	23,385	-2.257	1.00	24.69	8
CB				41	19,368	24.140	3.991	1.00	24.21	7
C ASN A 1 18.226 23.637 -6.762 1.00 22.88 6 O ASN A 1 18.291 24.859 -6.633 1.00 22.25 8 N ASN A 1 18.291 24.859 -6.633 1.00 22.27 7 C ASN A 1 18.316 23.019 -7.933 1.00 22.17 7 C ASN A 1 20.613 22.517 5.443 1.00 24.43 6 O ASN A 1 20.633 22.517 5.443 1.00 25.03 7 K MET A 1 21.630 23.371 5.435 1.00 25.03 7 C AMET A 1 22.850 23.139 -6.196 1.00 26.58 6 C MET A 1 22.850 23.139 -6.196 1.00 26.58 6 C MET A 1 22.851 24.458 6.529 1.00 27.98 6 C MET A 1 23.547 24.458 6.529 1.00 27.98 6 C MET A 1 23.951 23.688 9.643 1.00 36.90 6 C MET A 1 23.951 23.688 9.643 1.00 36.90 6 C MET A 1 23.951 23.688 9.643 1.00 27.33 6 C MET A 1 24.455 21.602 6.317 1.00 27.33 6 C MET A 1 24.455 20.637 3.771 1.00 27.33 7 CA VAL A 1 24.425 20.637 3.771 1.00 27.33 7 CA VAL A 1 24.341 20.475 2.251 1.00 27.90 6 C VAL A 1 24.398 21.699 4.337 1.00 27.35 6 C VAL A 1 24.398 12.767 1.536 1.00 25.87 6 C VAL A 1 23.973 19.328 4.435 1.00 25.87 6 C VAL A 1 23.983 18.507 4.856 1.00 25.87 6 C VAL A 1 22.658 19.352 1.755 1.00 25.87 6 C VAL A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.659 17.988 5.214 1.00 25.87 6 C BALA A 1 22.659 17.988 5.214 1.00 25.87 6 C BALA A 1 22.659 17.988 5.214 1.00 25.87 6 C BALA A 1 22.659 17.988 5.214 1.00 25.54 8 N GLY A 1 22.659 17.988 5.214 1.00 25.54 8 N GLY A 1 22.291 19.270 7.275 1.00 27.95 7 CA GLY A 1 24.941 18.991 8.970 1.00 29.26 6 C GLY A 1 24.941 18.991 8.970 1.00 29.26 6 C GLY A 1 24.041 18.991 8.970 1.00 29.26 6 C GLY A 1 24.041 18.991 8.970 1.00 33.38 7 C GL HIS A 1 26.606 17.528 3.873 1.00 35.54 8 N HIS A 1 26.606 17.528 3.873 1.00 31.18 6 C HIS A 1 26.606 17.528 3.873 1.00 31.86 6 C LEU A 1 26.606 17.528 3.873 1.00 31.86 6 C LEU A 1 26.606 17.528 3.873 1.00 33.94 6 C LEU A 1 26.606 17.528 3.932 1.00 34.56 6 C LEU A 1 26.606 17.528 3.932 1.00 34.56 6 C LEU A 1 26.606 17.528 3.932 1.00 34.56 6 C LEU A 1 26.606 17.528 3.932 1.00 34.56 6 C LEU A 1 26.606 17.528 3.932 1.00 34.56 6 C LEU	CA	ASN	A	Цı	19.357	22.841	-4.651	1.00	24.07	6
C	CI	3 ASN	A	1	18.105	22.748	-5.540	1.00	22.14	6
N ASN A 1 18.316 23.019 7.933 1.00 22.17 7 C ASN A 1 20.613 22.517 5.443 1.00 24.43 6 O ASN A 1 20.701 21.419 6.008 1.00 23.79 8 N MET A 1 21.630 23.371 5.435 1.00 25.03 7 CA MET A 1 22.850 23.139 6.196 1.00 26.58 6 CB MET A 1 22.851 25.227 7.629 1.00 27.98 6 CB MET A 1 23.547 24.458 6.529 1.00 27.98 6 CB MET A 1 23.551 23.688 9.643 1.00 36.90 6 C MET A 1 23.951 23.688 9.643 1.00 36.90 6 C MET A 1 23.577 22.099 5.553 1.00 27.33 6 C MET A 1 23.595 23.698 9.643 1.00 36.90 6 C MET A 1 23.598 21.602 6.317 1.00 28.18 8 N VAL A 1 23.598 21.602 6.317 1.00 27.33 6 C MET A 1 24.655 21.602 6.317 1.00 27.33 6 C WAL A 1 24.655 21.602 6.317 1.00 27.33 6 C WAL A 1 24.655 1.809 4.337 1.00 27.33 6 C VAL A 1 24.658 19.352 1.785 1.00 27.90 6 C VAL A 1 24.698 21.767 1.536 1.00 27.90 6 C VAL A 1 24.698 21.767 1.536 1.00 27.90 6 C VAL A 1 24.783 18.507 4.856 1.00 25.87 6 C VAL A 1 22.783 18.507 4.856 1.00 27.02 7 CA ALA A 1 22.783 18.507 4.856 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.639 17.988 5.214 1.00 26.98 8 N ALA A 1 22.639 17.988 1.5214 1.00 26.98 6 C B ALA A 1 22.593 18.059 6.723 1.00 25.54 8 N GLY A 1 22.623 19.479 8.678 1.00 27.35 7 CA GLY A 1 22.623 19.479 8.678 1.00 27.35 7 CA GLY A 1 22.623 19.479 8.678 1.00 25.54 8 N GLY A 1 22.633 19.479 8.678 1.00 25.54 8 N GLY A 1 22.633 19.479 8.678 1.00 27.35 7 CE HIS A 1 24.431 1.92.79 1.988 7.458 1.00 27.35 7 CE HIS A 1 24.640 19.912 8.352 1.00 31.50 6 C HIS A 1 24.639 19.12 8.352 1.00 31.50 6 C HIS A 1 24.639 19.12 8.352 1.00 31.50 6 C HIS A 1 26.609 17.528 8.173 1.00 29.26 6 C LEU A 1 26.609 15.347 4.370 1.00 31.38 6 C LEU A 1 26.696 15.347 4.370 1.00 31.38 6 C LEU A 1 26.696 15.347 4.370 1.00 33.38 7 CE HIS A 1 26.666 17.528 8.173 1.00 32.77 6 C LEU A 1 26.698 15.667 1.668 8.032 1.00 34.56 6 C LEU A 1 26.698 15.347 4.370 1.00 33.99 6 C LEU A 1 26.698 15.347 4.370 1.00 33.99 6 C LEU A 1 26.698 15.347 4.370 1.00 35.52 6 C THR A 1 22.528 14.239 9.532 1.00 34.56 6 C LEU A 1 26.698 15.347 4.370 1.00 35.55 6	C	ASN	LA	11	18,226	23.637		1.00	22.88	6
C ASN A 1 20.613 22.517 5.443 1.00 24.43 6 O ASN A 1 20.701 21.419 6.008 1.00 23.79 8 N MET A 1 21.630 23.371 5.435 1.00 26.58 6 CB MET A 1 22.850 23.139 6.196 1.00 27.98 6 CB MET A 1 22.850 23.139 6.196 1.00 27.98 6 CB MET A 1 22.851 25.227 7.629 1.00 32.05 6 SD MET A 1 22.854 24.458 6.529 1.00 32.05 6 SD MET A 1 22.846 24.205 9.040 1.00 35.93 1 CE MET A 1 23.951 23.688 9.643 1.00 36.90 6 C MET A 1 23.951 23.688 9.643 1.00 36.90 6 C MET A 1 23.777 22.099 5.593 1.00 27.33 6 C MET A 1 24.455 21.602 6.317 1.00 27.33 7 CA VAL A 1 24.425 20.637 3.771 1.00 27.33 7 CA VAL A 1 24.425 20.637 3.771 1.00 27.35 6 C VAL A 1 24.988 21.699 4.337 1.00 27.35 7 C VAL A 1 24.698 21.767 1.536 1.00 25.87 6 C VAL A 1 24.698 21.767 1.536 1.00 25.87 6 C VAL A 1 22.858 19.352 1.785 1.00 25.87 6 C VAL A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.698 17.988 5.214 1.00 27.02 7 CA ALA A 1 22.979 17.988 5.214 1.00 27.02 7 CA ALA A 1 22.99 17.988 5.214 1.00 26.49 6 CB ALA A 1 22.291 19.270 7.275 1.00 27.35 6 C ALA A 1 22.291 19.270 7.275 1.00 27.35 6 C GLY A 1 22.291 19.270 7.275 1.00 27.35 6 C GLY A 1 22.291 19.270 7.275 1.00 27.35 7 CA GLY A 1 22.891 37.856 4.897 1.00 25.64 8 N GLY A 1 22.693 17.856 4.897 1.00 25.54 8 N GLY A 1 22.291 19.270 7.275 1.00 27.35 7 CA GLY A 1 22.291 19.270 7.275 1.00 27.35 7 CA GLY A 1 22.291 19.270 7.275 1.00 29.26 6 C GLY A 1 24.238 18.218 9.905 1.00 29.26 6 C HIS A 1 27.723 21.121 8.124 1.00 30.77 6 C HIS A 1 27.723 21.121 8.124 1.00 30.77 6 C HIS A 1 26.696 17.528 8.173 1.00 33.38 7 C HIS A 1 26.696 17.528 8.173 1.00 33.38 7 C HIS A 1 26.696 17.528 8.173 1.00 33.39 6 C LEU A 1 26.696 17.528 8.173 1.00 33.39 6 C LEU A 1 26.696 17.528 8.173 1.00 33.38 7 C HIS A 1 26.696 17.528 8.173 1.00 33.38 7 C HIS A 1 26.696 17.528 8.173 1.00 33.39 6 C LEU A 1 26.696 17.528 8.173 1.00 33.39 6 C LEU A 1 26.696 17.528 8.173 1.00 33.39 6 C LEU A 1 26.696 17.528 8.173 1.00 33.39 6 C LEU A 1 26.696 17.528 9.492 1.00 34.56 6 C LEU A 1 26.696 17.528 9.914 1.00 29.77 6 C HIR A 1		ASN	A	11	18.291	24.859	-6.633	1.00	22.25	8
C ASN A 1 20.613 22.517 -5.443 1.00 24.43 6 O ASN A 1 20.701 21.419 -6.008 1.00 23.79 8 N MET A 1 22.850 23.139 -6.196 1.00 26.58 6 CB MET A 1 22.850 23.139 -6.196 1.00 26.58 6 CB MET A 1 22.851 25.227 -7.629 1.00 35.93 6 C MET A 1 22.346 24.205 -9.040 1.00 36.90 6 C MET A 1 23.951 23.688 -9.643 1.00 36.90 6 C MET A 1 23.952 1.60 25.11 1.00 27.33 6 C MET A 1 23.953 21.60 2.251 1.00	N	ASN	A	1	18.316	23.019	-7.933	1.00	22.17	7
N	C	ASN	LΑ	1	20.613	22.517	-5.443	1.00	24.43	
MET A 1 21,630 23,371 -5,435 1,00 25,03 7 CA MET A 1 22,850 23,139 -6,196 1,00 26,58 6 CB MET A 1 22,821 25,227 7,629 1,00 32,05 6 SD MET A 1 22,346 24,205 -9,040 1,00 35,93 1 CE MET A 1 22,346 24,205 -9,040 1,00 35,93 1 CE MET A 1 23,951 23,688 9,643 1,00 36,90 6 C MET A 1 23,777 22,099 -5,593 1,00 27,133 6 C MET A 1 23,598 21,692 -6,317 1,00 27,133 7 CA VAL A 1 24,425 20,637 3,771 1,00 27,13 7 CA VAL A 1 24,425 20,637 3,771 1,00 27,35 6 C VAL A 1 24,425 20,637 3,771 1,00 27,35 6 C VAL A 1 24,425 20,637 3,771 1,00 27,35 6 C VAL A 1 24,498 21,767 -1,536 1,00 25,87 6 C VAL A 1 24,698 21,767 -1,536 1,00 25,87 6 C VAL A 1 24,698 21,767 -1,536 1,00 27,41 6 C VAL A 1 23,973 19,328 4,435 1,00 27,41 6 C VAL A 1 22,658 19,158 4,561 1,00 27,02 7 CA ALA A 1 22,658 19,158 4,561 1,00 27,02 7 CA ALA A 1 22,658 19,158 4,561 1,00 27,02 7 CA ALA A 1 22,658 19,158 4,561 1,00 27,02 7 CA ALA A 1 22,302 17,956 4,897 1,00 27,25 7 CA ALA A 1 22,549 17,948 -7,378 1,00 26,51 6 C ALA A 1 22,549 17,948 -7,378 1,00 26,51 6 C ALA A 1 22,623 19,479 8,678 1,00 27,35 7 CA GLY A 1 22,623 19,479 8,678 1,00 27,35 7 CA GLY A 1 22,623 19,479 8,678 1,00 29,73 8 N HIS A 1 22,623 19,479 8,678 1,00 31,18 6 C HIS A 1 24,431 18,991 8,970 1,00 29,273 8 N HIS A 1 24,431 18,991 8,970 1,00 31,26 6 C HIS A 1 27,425 23,477 -7,668 1,00 31,36 6 C HIS A 1 27,415 16,960 8,967 1,00 31,38 6 C HIS A 1 26,696 15,347 4,370 1,00 34,56 6 C	0	ASN	lΑ	11	20.701	21.419	-6.008	1.00		
CA	N	MET	Α	11	21,630	23.371	-5.435	1.00		7
CB MET A 1 23.547 24.458 6.529 1.00 27.98 6 C MET A 1 22.821 25.227 7.629 1.00 35.93 1 CE MET A 1 22.346 24.205 9.040 1.00 36.99 6 C MET A 1 23.951 23.668 9.643 1.00 36.99 6 C MET A 1 23.777 22.099 5.593 1.00 27.33 6 C MET A 1 24.655 21.602 6.317 1.00 28.18 8 N VAL A 1 24.655 21.602 6.317 1.00 27.13 7 CA VAL A 1 24.425 20.637 3.771 1.00 27.35 6 C VAL A 1 24.425 20.637 3.771 1.00 27.95 6 C VAL A 1 24.925 20.637 3.771 1.00 27.90 6 C VAL A 1 24.925 20.637 3.771 1.00 27.90 6 C VAL A 1 24.938 19.352 1.785 1.00 25.87 6 C VAL A 1 24.698 21.767 1.536 1.00 25.87 6 C VAL A 1 24.783 19.328 4.435 1.00 27.41 6 O VAL A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.598 17.856 4.897 1.00 26.51 6 C ALA A 1 22.595 17.048 7.378 1.00 25.54 8 N GLY A 1 22.623 17.048 7.378 1.00 25.54 8 N GLY A 1 22.623 19.270 7.275 1.00 27.35 7 CA GLY A 1 22.623 19.479 8.678 1.00 28.51 6 C GLY A 1 24.041 18.991 8.970 1.00 29.26 6 C GLY A 1 24.041 18.991 8.970 1.00 29.26 6 C GLY A 1 24.041 18.991 8.970 1.00 29.26 6 C GLY A 1 24.041 18.991 8.970 1.00 29.26 6 C GLY A 1 24.643 19.012 8.367 1.00 30.77 6 C GLY A 1 24.646 1.595 7.458 1.00 31.50 6 C GLY A 1 24.666 17.528 8.173 1.00 30.77 6 C HIS A 1 27.795 23.293 8.467 1.00 31.50 6 C HIS A 1 26.696 15.347 7.455 1.00 33.38 7 C HIS A 1 26.696 15.048 5.555 1.00 33.94 6 C LEU A 1 26.6	CA	MET	A	1	22.850	23.139	-6.196	1.00		6
C	CB	MET	A	l	23.547	24.458				
SD MET A 22.346 24.205 -9.040 1.00 35.93 1 CE MET A 1 23.951 23.688 9.643 1.00 36.90 6 C MET A 1 23.777 22.099 -5.593 1.00 27.33 6 C MET A 1 23.777 22.099 -5.593 1.00 27.13 7 CA VAL A 1 23.598 21.699 -4.337 1.00 27.13 7 CA VAL A 1 24.425 20.637 -3.771 1.00 27.35 6 C VAL A 1 24.425 20.637 -3.771 1.00 27.35 6 C VAL A 1 24.425 20.637 -3.771 1.00 27.35 6 C VAL A 1 24.425 20.637 -3.771 1.00 27.35 6 C VAL A 1 24.698 21.767 -1.536 1.00 25.87 6 C VAL A 1 24.698 21.767 -1.536 1.00 25.87 6 C VAL A 1 24.698 21.767 -1.536 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.556 1.00 27.02 7 CA ALA A 1 22.658 19.158 4.561 1.00 27.02 7 CA ALA A 1 22.079 17.988 5.214 1.00 26.49 6 CB ALA A 1 22.302 18.059 6.723 1.00 26.51 6 C ALA A 1 22.329 19.270 7.275 1.00 27.35 7 CA GLY A 1 22.623 19.479 8.678 1.00 27.35 7 CA GLY A 1 22.623 19.479 8.678 1.00 27.35 7 CA GLY A 1 22.623 19.479 8.678 1.00 27.35 7 CA GLY A 1 22.623 19.479 8.678 1.00 29.26 6 O GLY A 1 22.623 19.479 8.678 1.00 29.26 6 O GLY A 1 22.623 19.479 8.678 1.00 29.73 8 N HIS A 1 27.428 23.247 7.668 1.00 30.77 6 C HIS A 1 27.428 22.347 7.668 1.00 31.18 6 C HIS A 1 27.428 22.347 7.668 1.00 31.18 6 C HIS A 1 27.428 22.347 7.668 1.00 31.39 6 C HIS A 1 26.696 15.68 5.555 1.00 33.94 6 C LEU A 1 26.696 15.68 5.555 1.00 33.94 6 C LEU A 1 26.696 15.68 5.555 1.00 33.94 6 C LEU A 1 26.696 15.68 5.555 1.00 33.94 6 C LEU A 1 26.696 15.68 5.555 1.00 33.94 6 C LEU A	C	MET	A	1				_		
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C	CE			_				_		
N	С	MET	IA	1						_
N	0	MET								_
CA VAL A 1 24,425 20,637 -3.771 1,00 27,35 6 CB VAL A 1 24,341 20,475 -2.251 1,00 27,90 6 C VAL A 1 25,268 19,352 -1,785 1,00 25,87 6 C VAL A 1 24,698 21,767 -1,536 1,00 25,87 6 C VAL A 1 24,698 21,767 -1,536 1,00 27,41 6 O VAL A 1 22,658 19,158 4,561 1,00 27,02 7 CA ALA A 1 22,059 17,988 5,214 1,00 26,51 6 CB ALA A 1 22,302 18,059 6,723 1,00 25,54 8 N GLY A 1 22,623 19,404 7,378 1,00	N	VAL	A	l						_
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N	0	ALA	A	1		17.048				
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O GLY A 1 24.238 18.218 9.905 1.00 29.73 8 N HIS A 1 25.018 19.404 8.172 1.00 30.444 7 CA HIS A 1 26.403 19.012 8.362 1.00 31.50 6 CB HIS A 1 27.347 19.828 7.458 1.00 30.77 6 C HIS A 1 27.723 21.121 8.124 1.00 30.77 6 C HIS A 1 27.298 22.347 7.668 1.00 31.84 7 CE HIS A 1 27.298 22.347 7.668 1.00 31.84 7 CE HIS A 1 27.288 22.347 7.668 1.00 31.84 7 CE HIS A 1 26.666 17.528 8.173 1.00	LC_	GLY	Α	ı	24.041					_
N HIS A 1 25.018 19.404 8.172 1.00 30.44 7 CA HIS A 1 26.403 19.012 8.362 1.00 31.50 6 CB HIS A 1 27.347 19.28 7.458 1.00 31.18 6 C HIS A 1 27.723 21.121 8.124 1.00 30.77 6 C HIS A 1 28.449 21.359 9.242 1.00 29.89 6 N HIS A 1 27.723 22.347 7.668 1.00 31.84 7 CE HIS A 1 27.725 23.293 8.467 1.00 31.24 6 N HIS A 1 28.464 22.719 9.430 1.00 28.66 7 C HIS A 1 26.666 17.528 8.173 1.00 32.17 6 O HIS A 1 26.666 17.528 8.173 1.00 32.17 6 O HIS A 1 26.666 17.528 8.173 1.00 33.38 7 CA LEU A 1 26.244 15.480 6.932 1.00 34.08 6 CB LEU A 1 26.284 15.480 6.932 1.00 33.09 6 C LEU A 1 26.024 14.968 3.059 1.00 33.09 6 C LEU A 1 26.024 14.968 3.059 1.00 34.56 6 C LEU A 1 26.024 14.968 3.059 1.00 34.56 6 C LEU A 1 26.286 13.669 8.492 1.00 34.56 8 N THR A 1 24.459 14.963 8.475 1.00 34.56 8 N THR A 1 24.459 14.963 8.475 1.00 34.56 8 N THR A 1 24.459 14.963 8.475 1.00 34.55 6 C THR A 1 22.420 14.826 9.914 1.00 29.47 6 C THR A 1 24.646 14.159 10.792 1.00 35.55 6 C THR A 1 24.646 14.159 10.792 1.00 35.59 6 C THR A 1 24.646 14.159 10.792 1.00 35.59 6 C THR A 1 24.646 14.159 10.792 1.00 35.59 6 C THR A 1 24.646 14.159 10.792 1.00 35.59 6 C THR A 1 24.646 14.159 10.792 1.00 35.55 6 O THR A 1 24.850 13.081 -11.350 1.00 35.92 8	0	GLY	Α	l	24,238	18,218	-9.905			
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N HIS A 1 27.298 22.347 -7.668 1.00 31.84 7 CE HIS A 1 27.765 23.293 8.467 1.00 31.24 6 N HIS A 1 28.464 22.719 -9.430 1.00 28.66 7 C HIS A 1 26.666 17.528 8.173 1.00 32.17 6 O HIS A 1 27.415 16.960 8.967 1.00 31.93 8 N LEU A 1 26.294 15.480 6.932 1.00 34.08 6 CB LEU A 1 25.766 15.068 -5.555 1.00 33.94 6 CB LEU A 1 25.696 15.347 4.370 1.00 35.38 6 C LEU A 1 26.696 15.347 4.370 1.00 35.38 6 C LEU A 1 26.696 15.347 4.370 1.00 35.02 6 C LEU A 1 26.696 14.667 4.510 1.00 35.02 6 C LEU A 1 28.019 14.607 4.510 1.00 35.02 6 C LEU A 1 25.696 15.347 1.00 35.02 6 C LEU A 1 25.696 15.347 1.00 35.02 6 C LEU A 1 26.298 13.669 8.492 1.00 34.56 6 N THR A 1 24.459 14.963 8.375 1.00 34.55 6 N THR A 1 22.420 14.963 9.914 1.00 29.47 6 C THR A 1 22.420 14.826 9.914 1.00 29.47 6 C THR A 1 24.850 13.081 -11.350 1.00 35.92 8		HIS	Α	1	27.723	21.121		1.00		6
N HIS A 1 27,298 22,347 7,668 1,00 31,84 7	С	HIS	Α	1	28.449	21.359	-9.242	1.00	29.89	6
CE HIS A 1 27.765 23.293 -8.467 1.00 31.24 6 N HIS A 1 28.464 22.719 -9.430 1.00 28.666 7 C HIS A 1 26.666 17.528 -8.173 1.00 32.17 6 O HIS A 1 27.415 16.960 -9.997 1.00 31.93 8 N LEU A 1 26.070 16.905 -7.163 1.00 33.98 7 CA LEU A 1 26.284 15.480 -6.932 1.00 34.98 6 CB LEU A 1 26.996 15.347 4.370 1.00 35.38 6 C LEU A 1 26.994 14.688 -3.059 1.00 35.02 6 C LEU A 1 26.696 14.607 -4.510 1.00 </td <td>N</td> <td>HIS</td> <td>Α</td> <td>1</td> <td>27.298</td> <td>22.347</td> <td></td> <td></td> <td></td> <td></td>	N	HIS	Α	1	27.298	22.347				
C HIS A 1 26,666 17,528 -8,173 1,00 32,17 6 O HIS A 1 27,415 16,950 -8,967 1,00 31,93 8 N LEU A 1 26,070 16,950 -8,967 1,00 31,93 8 CA LEU A 1 26,284 15,480 -6,932 1,00 34,08 6 CB LEU A 1 25,766 15,068 -5,555 1,00 33,39 6 C LEU A 1 26,696 15,347 -4,370 1,00 35,38 6 C LEU A 1 26,024 14,968 -3,059 1,00 35,02 6 C LEU A 1 26,024 14,968 -3,059 1,00 35,02 6 C LEU A 1 26,627 14,669 -8,032 1,00 <td>CE</td> <td>HIS</td> <td>Α</td> <td>1</td> <td>27.765</td> <td>23.293</td> <td>-8,467</td> <td>1.00</td> <td></td> <td></td>	CE	HIS	Α	1	27.765	23.293	-8,467	1.00		
O HIS A 1 27.415 16.960 -8.967 1.00 31.93 8 N LEU A 1 26.070 16.905 -7.163 1.00 31.93 8 CA LEU A 1 26.284 15.480 -6.932 1.00 34.08 6 CB LEU A 1 26.696 15.347 -4.370 1.00 35.38 6 C LEU A 1 26.696 15.347 -4.370 1.00 35.38 6 C LEU A 1 26.696 15.347 -4.370 1.00 35.38 6 C LEU A 1 26.024 14.968 -3.059 1.00 35.02 6 C LEU A 1 26.024 14.968 -3.059 1.00 35.02 6 C LEU A 1 26.298 13.669 -8.492 1.00 <td>N</td> <td>HIS</td> <td>A</td> <td>1</td> <td>28.464</td> <td>22.719</td> <td>-9,430</td> <td>1.00</td> <td>28.66</td> <td>7</td>	N	HIS	A	1	28.464	22.719	-9,430	1.00	28.66	7
N LEU A 1 26.070 16.905 -7.163 1.00 33.38 7 CA LEU A 1 26.224 15.480 -6.932 1.00 34.08 6 CB LEU A 1 25.766 15.068 -5.555 1.00 33.94 6 C LEU A 1 26.696 15.347 4.370 1.00 35.38 6 C LEU A 1 26.696 15.347 4.370 1.00 35.98 6 C LEU A 1 26.696 15.069 1.00 30.99 6 C LEU A 1 28.019 14.607 -4.510 1.00 35.02 6 C LEU A 1 28.019 14.607 -4.510 1.00 35.02 6 C LEU A 1 26.298 13.669 -8.492 1.00 34.56 6 O LEU A 1 26.298 13.669 -8.492 1.00 34.56 8 N THR A 1 24.459 14.963 -8.475 1.00 34.55 6 CB THR A 1 22.420 14.826 -9.914 1.00 29.47 6 O THR A 1 22.582 16.220 -10.197 1.00 26.25 8 C THR A 1 21.395 14.651 8.809 1.00 24.88 6 C THR A 1 24.646 14.159 10.792 1.00 35.65 6 O THR A 1 24.646 14.159 10.792 1.00 35.65 6	<u>C</u>	HIS	A	1	26,666	17.528	-8,173	1.00	32.17	6
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CB LEU A 1 25.766 15.068 -5.555 1.00 33.94 6 C LEU A I 26.696 15.347 -4.370 1.00 35.38 6 C LEU A 1 26.024 14.968 -3.059 1.00 35.09 6 C LEU A 1 25.667 14.607 -4.510 1.00 35.02 6 C LEU A 1 25.667 14.626 -8.032 1.00 34.56 6 O LEU A 1 25.629 13.669 -8.492 1.00 34.56 6 N THR A 1 24.459 14.963 -8.475 1.00 34.57 7 CA THR A 1 22.459 14.223 -9.532 1.00 34.15 6 CB THR A 1 22.420 14.826 -9.914 1.00 </td <td></td> <td>LEU</td> <td>A</td> <td>1</td> <td>26.070</td> <td>16.905</td> <td>-7.163</td> <td>1.00</td> <td>33.38</td> <td>7</td>		LEU	A	1	26.070	16.905	-7.163	1.00	33.38	7
C LEU A I 26.696 15.347 4.370 1.00 35.38 6 C LEU A 1 26.024 14.968 -3.059 1.00 33.09 6 C LEU A 1 28.019 14.607 -4.510 1.00 35.02 6 C LEU A 1 25.667 14.626 -8.032 1.00 34.56 6 O LEU A 1 26.298 13.669 -8.492 1.00 34.57 7 CA THR A 1 24.459 14.963 -8.475 1.00 34.57 7 CA THR A 1 23.785 14.223 -9.532 1.00 34.15 6 CB THR A 1 22.420 14.826 -9.914 1.00 29.47 6 CB THR A 1 22.582 16.220 -10.197 1.00<	CA			1		15.480	-6.932	1.00	34.08	6
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C LEU A 1 28.019 14.607 -4.510 1.00 35.02 6 C LEU A 1 25.667 14.626 -8.032 1.00 34.55 6 O LEU A 1 26.298 13.669 -8.492 1.00 34.55 8 N THR A 1 224.459 14.963 -8.475 1.00 34.57 7 CA THR A 1 23.785 14.223 -9.532 1.00 34.15 6 CB THR A 1 22.420 14.826 -9.914 1.00 29.47 6 O THR A 1 22.582 16.220 -10.197 1.00 24.85 8 C THR A 1 24.646 14.159 -10.792 1.00 35.65 6 O THR A 1 24.646 14.159 -10.792 1.0	С	LEU	Α	ı	26.696	15.347	4,370	1.00	35.38	6
C LEU A 1 28.019 14.607 -4.510 1.00 35.02 6 C LEU A 1 25.667 14.626 -8.032 1.00 34.55 6 O LEU A 1 26.298 13.669 -8.492 1.00 34.55 8 N THR A 1 24.459 14.963 -8.475 1.00 34.57 7 CA THR A 1 23.785 14.223 -9.532 1.00 34.15 6 CB THR A 1 22.420 14.826 -9.914 1.00 29.47 6 O THR A 1 22.582 16.220 -10.197 1.00 26.25 8 C THR A 1 24.646 14.159 -10.792 1.00 35.65 6 C THR A 1 24.846 14.159 -10.792 1.00	С	LEU	Α	1	26.024	14.968	-3.059	1.00	33.09	6
O LEU A 1 26.298 13.669 -8.492 1.00 34.55 8 N THR A 1 24.459 14.963 -8.475 1.00 34.57 7 CA THR A 1 23.785 14.223 -9.532 1.00 34.15 6 CB THR A 1 22.420 14.826 -9.914 1.00 29.47 6 O THR A 1 22.582 16.220 -10.197 1.00 26.25 3 C THR A 1 24.846 14.159 -10.792 1.00 35.65 6 O THR A 1 24.846 14.159 -10.792 1.00 35.95 6 O THR A 1 24.850 13.081 -11.350 1.00 35.92 8	C	LEU	A	1	28.019	14.607	-4.510	1.00	35.02	6
O LEU A 1 26.298 13.669 -8.492 1.00 34.56 8 N THR A 1 24.459 14.963 -8.475 1.00 34.57 7 CA THR A 1 23.785 14.223 -9.532 1.00 34.15 6 CB THR A 1 22.420 14.826 -9.914 1.00 29.47 6 O THR A 1 22.582 16.220 -10.197 1.00 26.25 8 C THR A 1 24.646 14.159 -10.792 1.00 35.65 6 O THR A 1 24.846 14.159 -10.792 1.00 35.65 6 O THR A 1 24.850 13.081 -11.350 1.00 35.92 8		LEU	Α	ı	25.667	14.626	-8.032	1.00	34.56	6
N THR A 1 24.459 14.963 -8.475 1.00 34.57 7 CA THR A 1 23.785 14.223 -9.532 1.00 34.15 6 CB THR A 1 22.420 14.826 9.914 1.00 29.47 6 O THR A 1 22.582 16.220 -10.197 1.00 26.25 8 C THR A 1 21.395 14.651 -8.809 1.00 24.88 6 C THR A 1 24.646 14.159 -10.792 1.00 35.65 6 O THR A 1 24.850 13.081 -11.350 1.00 35.92 8	_	LEU	A	1	26.298	13.669	-8.492			
CA THR A 1 23.785 14.223 -9.532 1.00 34.15 6 CB THR A 1 22.420 14.826 -9.914 1.00 29.47 6 O THR A 1 22.582 16.20 -10.197 1.00 26.25 8 C THR A 1 24.646 14.159 -10.792 1.00 35.65 6 O THR A 1 24.850 13.081 -11.350 1.00 35.92 8		THR	A	1	24.459	14.963			7	
CB THR A 1 22.420 14.826 9.914 1.00 29.47 6 O THR A 1 22.582 16.220 -10.197 1.00 26.25 8 C THR A 1 21.395 14.651 -8.809 1.00 24.88 6 C THR A 1 24.646 14.159 -10.792 1.00 35.65 6 O THR A 1 24.850 13.081 -11.350 1.00 35.92 8	CA	THR	A	1						_
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O THR A 1 24.850 13.081 -11.350 1.00 35.92 8	c]		A	ı	24.646					
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C	Α	ILE	Ι.	A [ī	26.035	15.369	9	-12.39	4 1.0	0 37.5	9	6
C	В	ILE	\Box	A.T	ī	26.478			-12.70				6
C		ILE	T_{a}	A.	ī	27.394			-13.91			_	6
C		ILE	T	A L	1	25.266		_	-12.92	$\overline{}$		_	6
C		ILE	\Box	AΤ	ī	25.565		$\overline{}$	-12.67	_			6
C		ILE	\Box	A I	ī	27,283			-12.16	_		_	6
Г		ILE	Τ,	<u> </u>	ī	27,627			-12,96	_		_	8
N		ME	_	_	ī	27.967		J	-11.053	_			7
C		ME'			1	29.175			-10.686			_	<u>′</u>
C		ME	_	_	ì	29.616		ĺ	-9.277	1.0			6
C		ME	_	_	ì	30.324	15.813		-9.239	1.0			6
S	ח	ME			î.	30.886			-7.581	_			_
C		ME		_	ì	32.332	15.198		-7.440	1.0			<u>Ļ</u>
C	-	ME		_	ì	29.056	12.531		-10.747	+ 2.4.			<u>6</u>
ō		MET			ì			_					6_
N	┪	TYR	_	_	ì	29,979 27,984	11.880		-11.247				8_
C.	ᅱ	TYR	_		i	27.818			-10.223		_		_
C		TYR					10.501		-10.220				
C	버	TYR		_	-	27.350	10.040	_	-8.822	1.00			
C	7	TYR		_	_	28.508	10,115		-7.843	1.00			Ī
lö	허	TYR	A			28,715	11.251		-7,073	1.00	_		_
C	버	TYR		_	_	29.778	11,325	+	<u>-6.193</u>	1.00			
C	ᆉ	TYR	I A		_	29.399	9.058	+	-7.720	1.00			
C	_	TYR	I A		_	30.463	9.127	+	-6.840	1.00			
H	4	TYR	TA	4	_	30.647	10.262	+	-6.080	1.00	_	16	_
c	┪	TYR		_	_	31.705	10.334	+	-5.205	1.00		18	_
ŏ	+					26.857	9.974	+	-11.272	1.00		16	_
N	+	TYR GLY	14		-	26.628	8.761	+	<u>-11,334</u>	1.00		8	
C.	7	GLY	ΗĄ	41	Н	26.245	10.850	+	<u>-12.060</u>	1.00		17	_
č	+		₽	4	Н	25.277	10.432	+	<u>-13.063</u>	1.00		16	_
ŏ	+	<u>GLY</u> GLY	A	+	Ч	23,987	9.912	+	-12.443	1.00	_	16	
й	+	LEU	IA	1	-	23,404	8.949	•	-12.947	1.00		18	-
CA	1	LEU	†₽	_	┪	23,524	10.551		-11.371	1.00		17	_
CE		LEU	A	+1	\dashv	22,277	10.155		<u>-10,718</u>	1.00		16	_
C		LEU	TA	Ħ	4	22.255	10.578	╀	-9.253	1.00		6	_
c		LEU	A	1	-	23.480	10.255	+	<u>-8.399</u>	1.00		16	_
c		LEU	A	_	┪	23,386	10.932	٠	-7.038	1.00	36.23	16	
č		LEU	IÀ	1	┪	23.656	8.753	۲	-8.225	1.00	36.82	16	4
ŏ		LEU	Ā	†î	+	21.095 20.954	10.757	H	<u>-11,474</u>	1.00	34.20	16	4
N	_	ARG	Â	tì	+	20.275	11.976	т	11.573	1.00	34.71	18	4
CA		ARG	A	1	7	19.162	9.896		<u>-12.067</u>	1.00	34.03	7	4
CB		ARG	Â	li	+	19.212	10.333		12.899	1.00	33.73	6	4
C		ARG	Â	1	+	20,590	9.617		14.255	1.00	37.33	16	4
C		ARG	Â	lì	+	20.559	9.564 9.681		14.892	1.00	39.93	6	4
N	_	ARG	Â	Ti.	+	19.555	8.819		16.405	1.00	45.40	16	4
CZ	_	ARG	Â	lî	+	18.668	9.187		17.010 17.925	1.00	50.00	7	┥
N		ARG	A	1	+	18.637	10.432			1,00	52.17	6	4
N		ARG	A	1	+	17,795	8.302		18.380 18.391	1.00	53.86	7	4
C		ARG	Ä	Î	+	17.811	10.130		12.228	1.00	53.95	7	4
ŏ		ARG	A	Ιî	+	16.766	10.388		12.826	1.00	32,95	6	4
N		GLY	Â	î	+	17.824	9.688			1.00	32.75	8	┨
CA	_	GLY	A	1	+	16.593	9,481		10.975	1.00	32.29	7	┨
C		GLY	A	1	+		_		10.221	1.00	31.31	6	4
ŏ		LY	A	1	+	16.101 16.608	10.809		9.649	1.00	30.98	6	4
N		RO	A	1			11.880		9,981	1.00	30.61	8	4
C	7-	RO	A			15.096 14.456	10.737		8.780	1.00	30.29	7	1
CA	_		_	1			9.478		8.332	1.00	30.09	6	4
	_	RO	A	ļ		14.509	11.909		8.166	1.00	29.57	6_	4
CB C	$\overline{}$	RO	A.	1		13.519	11.360		7.154	1.00	29.77	6	4
		RO	A	1		13.355	9.915		7.418	1.00	29.79	6	4
<u>ç</u>	_	RO	Ā	1		15,533	12.807		7,488	1.00	29.38	6	1
윿		RO	A	1		16,450	12.336	_	6.817	1.00	28.41	8	1
N CA		ER	Ā	1		15,356	14.118		7.629	1.00	28.94	7	1
CA		ER	Ā	1		16.250	15.094		7.023	1.00	27,53	6	1
CB	LS	ER	Α	1	Ľ	7.149	15.708	٠{	3.103	1.00	29.57	6	J

	CED	Τ.	Τ.	10.000	1		1		1.
10	SER		+				1,00		- 8
lč-	SER	- A	1				1.00		6
10	SER	I A	 1		17.041		1.00		8
N	ILE	-∤ ^	+	15.474	16.244	-	1.00		17
CA		- ^	+!		17.320		1.00		6
CE		Ą	4	13.482	16.951	-3.579	1.00		6
E	ILE	- ♠	+;	12.331	16,776		1.00		16
Ë	ILE	1A	+1	13.650	15.714		1.00		6
le-	ILE.	1Ă	 1	12.588	15,627		1.00		6
lè-	ILE	₽¥.	+	15,709	17.968		11.00		16
10	ILE	IA.	++	16.762	17.455	-2.899	1.00		8
N	SER	- A	++	15.272	19,131	-2.791	1.00		17
CA		IA.	+:	15.975	19.891	-1.776	1.00		6
CB		I.	1	16.846	20.992	-2.374	1.00		6
0	SER	₽	11	17.886	20.488	-3.183	1.00	24.55	8
Ĕ	SER	ĮĄ.	++	14.954	20.529	-0.830	1.00	22.76	6
6	SER	₽₽	+1	14.208	21.410	-1.268	1.00		8
N	ILE	IA.	1	14.925	20.083	0.422	1.00	21.99	7
CA	ILE	ļĄ.	11	13.988	20.677	1.379	1.00	21.74	6
CB		₩.	++	13.273	19.657	2.271	1.00		6
<u> </u>	ILE	ļĄ	11	12.340	20.363	3.253	1.00	18.21	6
lč.	ILE	ĮĄ.	11	12.485	18,680	1.394	1.00	16.47	16
lç.	ILE	₽.	1	11.801	17.553	2.125	1.00	15.87	6
Ë	ILE	₽	1.	14.732	21.721	2.212	1.00	21,86	6
<u>Q</u>	ILE	1A	1	15.832	21,490	2.710	1.00	22.41	8
CA	ALA	₩.	1	14.136	22.904	2.305	1.00	21.42	7
	ALA	ļĄ.	H	14.730	24.012	3.047	1.00	20.33	6
CB	ALA	A	1	15.008 13.798	25.172	2.105	1.00	16.53	6
ŏ	ALA	_	1	12.924	24.428	4.180	1.00	19.82	6
N	THR	A	i	13.981	25,278	4.015	1.00	18,81	8
CA	THR	1			23.797	5.336	1.00	19.95	7
CB	THR	A	1	13.149	24.098 22.902	6.499 6.879	1.00	20.29 18.29	6
o_	THR	Â	i	13.009	21.692	6.725	1.00	17.31	8
Č	THR	A	î	11.023	22.835	5.992	1.00	13.32	6
C	THR	A	1	14.011	24.514	7.684	1.00	20.40	6
o	THR	A	1	13.897	23,945	8,770	1.00	20.37	8
N	ALA	A	1	14.905	25,476	7.453	1.00	20.45	7
CA	ALA	A	ī	15.764	25.976	8.530	1.00	21.02	6
CB	ALA	A	1	14.946	26.878	9.445	1.00	18.59	6
C	ALA	A	1	16.387	24.821	9.297	1.00	21.40	6
0	ALA	Α	1	16.920	23.888	8.690	1.00	21.38	8
N	CYS	A	1	16.226	24.780	10.615	1.00	22.02	7
CA	CYS	A	1	15.747	23,748	11.482	1.00	22.36	6
СВ	CYS	A	1	16.442	24.074	12.957	1.00	21.11	6
SG	CYS	A	1	16.391	25.832	13.348	1.00	19.89	1
С	CYS	A	1	16.234	22.335	11.252	1.00	23.18	6
0	CYS	Α	1	16.802	21.406	11.841	1.00	24.80	8
N	THR	A	1	15.163	22.137	10.504	1,00	23.36	7
CA	THR	A	1	14.602	20.807	10,288	1.00	22.40	6
CB	THR	A	1	13.067	20.868	10.439	1.00	23.80	6
0	THR	A	1	12.757	21.679	11.585	1.00	24,52	8
C	THR	Α	1	12,460	19.491	10,627	1.00	22.84	6
С	THR	A	1	14.989	20.237	8.938	1.00	21.06	6
0	THR	Α	1	14,718	19.075	8.628	1.00	22.39	8
N	SER	A	1	15.715	21.009	8.140	1.00	20.00	7
CA	SER	Α	1	16.110	20.631	6.795	1.00	19.25	6
CB	SER	Α	1	17,141	21.618	6.239	1.00	17.46	6
0	SER	A	1	16.582	22.893	6.014	1.00	17.15	8
С	SER	A.	1	16.684	19.224	6.707	1.00	19.87	6
0	SER	Α	ı	16.217	18.389	5.928	1.00	19.12	8
N	GLY	Α	1	17.724	18.954	7.490	1.00	20.89	7
CA	GLY	A	1	18,379	17.655	7.493	1.00	22.58	6
С	GLY	Α	1.	17.412	16.513	7,766	1.00		6

0	GLY	ľ	ΛĪ	17.502	15.461	7.132	1.00	24.80	8 (
N	VAL	Ą	Πi				1.00		
CA	VAL	_ A	1	15.568	15.639	9.104	1.00		
CE		A	1	14.954	15.935	10.485	1.00	26.54	6
C	VAL	14	ப	13.631	15.222	10.713	1.00	28.08	6
C	VAL	_ A	41	15.946	15.553	11.579	1.00	25.33	6
C	VAL	A		14.485	15.475	8.048	1.00	26.62	6
10	VAL	_[A		14.045	14.351	7.792	1.00	27.98	8
N	HIS	10	_	14.039	16.570	7.442	1.00	26.00	7
CA		-↓∆	$\overline{}$	12.999	16.512		1.00	24.82	6
CB		A	41	12.453	17.908		1.00	23.96	6
C	HIS	10	_	11.405	18.394		1.00		
C	HIS	-∤∆		10.606	17.745		1.00		
N	HIS	A	1	11.084	19.733		1.00		
CE		ΙA	_	10.136	19.880		1.00		
C	HIS	14	+1	9.828	18.691	8.571	1.00		7
0	HIS	₽.	11	13.505	15.866		1.00		_
N	HIS ASN	1A	++	12.780	15.110		1.00		
CA	ASN	A	1	14.738 15.337	16.191	4.760	1.00		
CB	ASN	TA	lì	16,657	15.637 16.341		1.00		_
C	ASN	IA	†î	16.509	17.666	3.249 2.535	1.00		16
ŏ	ASN	ΪÂ	1î	16.753	18.736	3.102	1.00		8
N	ASN	Ā	Tî	16.117	17.630	1.268	1.00		7
С	ASN	IA	ī	15.532	14.131	3.684	1.00		6
0	ASN	ĪΑ	l	15.091	13.358	2.832	1.00		8
N	ILE	A	1	16.123	13,691	4.791	1.00		7
CA	ILE	A	1	16.336	12,273	5,057	1.00		6
CB	ILE	A	11	17.089	12.047	6.382	1.00	23,70	6
C	ILE	ļΑ	11	17.092	10.579	6.787	1.00	22,39	6
C_	ILE	ĮA.	1	18.523	12,568	6.258	1.00	22.09	6
C_	ILE	IA	11	19,263	12.683	7.570	1.00	23.14	6
Č-	ILE	ļĄ	+1	15.023	11.497	5.061	1.00	24.26	6
0	ILE	ļĄ	1.	14.932	10.445	4.427	1.00		8
N CA	GLY	A	1	14.012	11.997	5.762	1.00	24.58	7
C	GLY	Â	1	12.713 11.980	11.349	5.812	1.00	25.44	6
o	GLY	Â	î	11.320	10.315	4.479	1.00	25.99	6
N	HIS	A	Tî	12.080	12.365	3.659	1.00	26.63 25.24	<u>8</u> 7
CA	HIS	A	li	11.370	12.367	2.374	1.00	25.23	6
СВ	HIS	A	lì	10.991	13.778	1.924	1.00	22.39	6
С	HIS	A	1	9.705	14.164	2.612	1.00	19.50	6
Ç	HIS	A	1	8.432	13.773	2.381	1,00	18.58	6
N	HIS	A	1	9,662	14.997	3.705	1.00	19.92	7
CE	HIS	A	1	8.411	15.125	4.108	1.00	18.51	6
N.	HIS	A	1	7.645	14.391	3.321	1.00	18.63	7
<u>c</u>	HIS	A	11	12,110	11.526	1.352	1.00	25.82	6
<u>e</u>	HIS	Ă.	1	11.508	10.936	0.451	1.00	25.77	8
N	ALA	A	ļ.	13.415	11.347	1.551	1.00	26.62	7
CA	ALA	A	1	14.201	10.450	0.711	1.00	27.35	6
CB C	ALA ALA	A	-	15.678	10.562	1.039	1.00	27.03	6
ŏ	ALA	A	1	13,708	9.019	0.957	1.00	27.92	6
N	ALA	Ā	i	13.531 13.412	8,234 8,701	0.027	1.00	28.61	8 7
CA	ALA	Ā	1	12.864	7.411	2,216		27.72	_
CB	ALA	A	î	12.932	7.219	2.605 4.111	1.00	28.34 24.59	6
c	ALA	Â	î	11,434	7.241	2,103	1.00	28.66	6
ŏ	ALA	A	1	11.083	6,159	1.626	1.00	29.30	8
N	ARG	A	î	10.626	8.298	2.173	1.00	28.76	7
CA	ARG	Ā	î	9.262	8.225	1.648	1,00	28.61	6
CB	ARG	Α	ı	8.456	9,488	1.913	1.00	24.10	6
c	ARG	Α	1	8.154	9.789	3.365	1.00	23.11	6
C	ARG	Α	1	7.081	8.881	3.938	1.00	24.33	6
N	ARG	Α	1	6.449	9.447	5.126	1.00	24.09	7

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CZ		_		6.668	9.071	6.379	1.00		
N	ARC	$\overline{}$	_	7.531	8.100	6.653	1.00		17
N	ARC	_	41	6.027	9.664	7.383	1.00	22,96	17
C	ARC	_		9.337	7.947	0.146	1.00	29.05	6
0	ARG	A		8.764	6.963	-0.322	1.00	28.83	8
N	ILE	A	1	10.175	8.700	-0.571	1.00	29.97	7
CA		A	1	10.412	8.435	-1.987	1.00	30.60	6
CE	ILE	_ A	\perp 1	11.472	9.361	-2.602	1.00	29.35	6
C	ILE	A	1	11.847	8.928	-4.014	1.00	26.83	6
C	ILE	A	11	10.983	10.815	-2.636	1.00	30.12	6
C	ILE	_ A	1	12.070	11.813	2.989	1.00	30.42	6
C	ILE	L A	<u> </u>	10.797	6.975	-2.206	1.00	31.59	6
0	ILE	A	\perp_1	10.158	6,295	-3.013	1.00	31.73	8
N	ILE	LA	\perp_1	11.810	6.481	-1.498	1.00	32.37	7
CA	ILE	A	1	12.236	5.092	-1.645	1.00	33.03	6
CB	ILE	Α	1	13.463	4.776	-0.770	1.00		
C	ILE	Α	1	13.683	3.280	-0.605	1.00		6
C	ILE	Α	1	14.690	5.435	-1.408	1.00	29.55	6
C	ILE	A	1	15.962	5.310	-0.614	1.00	26.75	6
C	ILE	A	11	11,111	4.111	-1.362	1.00	33.89	6
0	ILE	A	1	10.851	3,228	-2.183	1.00	34.76	8
N	ALA	A	1	10.379	4.296	-0.271	1.00	33,88	7.
CA	ALA	IA	1	9.267	3,434	0.091	1.00	35.05	6
CB	ALA	A	11	8.764	3.815	1.479	1.00	30.13	6
C	ALA	A	1	8.117	3.463	-0.908	1.00	36,72	6
0	ALA	A	1	7.360	2.491	-1.009	1.00	37.70	8
N	TYR	A	11	7.950	4.554	-1.642	1.00	37.34	7
CA	TYR	IA.	11	6.910	4.689	-2.645	1.00	37.89	6
CB		A	11	6.661	6.171	-2.943	1.00	37.46	6
C	TYR	↓A	11	5,438	6,430	-3.794	1.00	36.91	6
C	TYR	A	11	4.191	6.618	-3.212	1.00	36.65	6
CE	TYR	ļA	11	3.070	6.854	-3.986	1.00	36.32	6
C	TYR	A	11	5.532	6.486	-5.177	1.00	36,28	6
CE	TYR	ļA.	11	4.418	6.719	-5.958	1.00	36.59	6
CZ	TYR	ĮĄ.	1	3.191	6.904	-5.358	1.00	36.47	6
0	TYR	A	11	2.083	7.139	-6.138	1.00	36,39	8
C	TYR	A	11	7.244	3.953	-3.937	1.00	38,42	6
0	TYR	A	1	6.336	3.537	4.662	1.00	39.08	8
N	GLY	ļ.	11	8.529	3.812	-4.248	1.00	38.49	7
CA	GLY	A	1	8.947	3.118	-5.455	1.00	38.13	6
<u>ç</u>	GLY	ļĄ.	1	9.594	4.021	-6.490	1.00	37.94	6
10	GLY	A	1	10.048	3.537	-7.533	1.00	38.16	8
N	ASP	A	1	9.750	5.307	-6.180	1.00	36.86	7
CA	ASP	A	1	10.333	6.258	-7.116	1.00	35.48	6
CB	ASP	ļĄ.	ļ.	9.949	7.697	-6.736	1.00	34.24	6
ŏ	ASP	A	1	8.548	8.026	-7.227	1.00	32.91	6
0	ASP	ļĄ.	1	7.848	8.814	-6.560	1.00	32.83	8
C	ASP	A	1	8.162	7.483	-8.284	1.00	30.59	8
Q	ASP_	Â	1	12.424	6.145	-7,234	1.00	34.86	6
N	ALA	A	1	12.424	6,574 '	-8.234	1.00	34.50	8
CA	ALA	A	1	12.484 13.930	5.581	-6.218 -6.227	1.00	34.49	7
CB	ALA	A	î	14.610	5,407		1.00	34.21	6
C	ALA	Â	1	14.312	6.650	-5,671	1.00	31.32	6
ŏ	ALA	Ā	1	13,507	4.177 3.693	-5.410	1.00	34.14	6
N	ASP	Â	î	15,526	3.683	-4.613 -5.622	1.00	34.34	7
CA	ASP	A	1	16.005	2.533			34.11	_
CB	ASP	Â	1	16.571	1,432	-4.857 5.746	1.00	34.81	6
C	ASP	A	1			-5.746	1.00	36.28	6
ŏ	ASP	Â	1	15,495 15,795	0.778	-6.598 7.759	1.00	36.55	6
ŏ	ASP	A	1	14.356	0,428 0,633	-7.758 -6.106	1.00	37.03	8
C	ASP	Ā	1	17.044	3.035	-3.854	1.00	36.08	8
ŏ	ASP	Ā	1	17.037	2.673		1.00	34.37	6
N	VAL	Â	î	17.900	3.937	-2.684 -4.321	1.00	34.29 34.24	8 7
ليتف		لخف		A1.3UU	J. 53 /	1.041	1.00	39.24	1.1

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CA		14	41	18.917	4.578	-3.508	1.00		_
CI	_	IA.	_	20.345	4.287	-4.011	1.00		_
ļc.	VAL	-∤4	_	21.388	4.950	-3.114	1.00	_	
Ę.	VAL	_	1	20,639	2.798	-4.108	1.00		_
Č	VAL	- A	_	18.733	6.096	-3.518	1.00		_
10	VAL		41	18.432	6.683	-4.555	1.00		
N	MET		12	18.951	6.739	-2.378	1.00		_
CA			+1	18.937	8.186	-2.263	1.00		
CE			11	17.660	8.727	-1.631	1.00		6
C	MET	_	+1	16.342	8.551	-2.341	1.00		
SD			1	16.246	9,357	-3.946	1.00	29.08	_
CE			+	15.597	10.961	-3.486	1.00	31.20	16
ြင	MET		+	20.109	8.666	-1.395	1.00	30.44	6
N	MET		+	20.302	8.170	-0.284	1.00	29.87	8
CA	VAL	A	+	20.857	9.642	-1.890	1.00	29.52	17
CB	VAL	۱À	1	21.815	10.382	-1.073	1.00	28,81	16
l č	VAL	A	11	22.956	11.026	-1.865	1.00	30.53	6
č	VAL	A	1	24.149	11.320	-0.962	1.00	29.68	6
C	VAL	A	1	23.391	10.162	-3.041	1.00	32.18	6
ŏ	VAL	A	tì	21.003	11.492 12.247	-0.394	1.00	28.25	16
N	ALA	A	1	21.009		-1.103	1.00	28.36	18
CA	ALA	A	li	20.229	12.580	0.927	1.00	28.00	17
CB		A	1	19.000	11.963	1.523 2.275	1.00	27.92 24.93	6
C	ALA	A	lî	21,058	13.294	2.684	1.00	28.72	6
O	ALA	Â	1	22.054	12.756	3.172	1.00	30.05	8
N	GLY	A	1	20.628	14.502	3.037	1.00	27.99	7
CA	GLY	A	li	21.336	15.263	4.055	1.00	27.29	6
C	GLY	A	ī	21.168	16.765	3.879	1.00	26.54	6
0	GLY	A	1	20.284	17.256	3.181	1.00	26.98	8
N	GLY	A	l i	22.058	17.494	4.543	1.00	25.00	7
CA	GLY	A	li	22.044	18.947	4.497	1.00	23.84	6
C	GLY	A	1	23,474	19.468	4.611	1.00	23.62	6
0	GLY	A	1	24,391	18,762	5.026	1.00	23.67	8
N	ALA	A	1	23,636	20.717	4.211	1.00	22,65	7
CA	ALA	A	1	24.920	21.397	4.285	1.00	22.01	6
CB	ALA	A	1	25.707	21.264	3.001	1.00	20,15	6
C	ALA	IA.	1	24.631	22.862	4.618	1.00	21.60	6
0	ALA	A	1	23.618	23.403	4.182	1.00	21.84	8
N	GLU	IA.	1	25.487	23.458	5.429	1.00	20.83	7
CA	GLU	A	1	25.319	24.851	5.816	1.00	19.89	6
CB	GLU	A_	1	24.426	24.977	7.049	1.00	18.28	6
<u>c</u>	GLU	A	1	23.831	26.355	7.291	1.00	18,28	6
<u>c</u>	GLU	A	щ	22,489	26.516	6,598	1.00	18.67	6
lŏ.	GLU	A	1	21.572	25,707	6.865	1.00	19.58	8
0	GLU	Ā.	1	22.362	27.441	5.773	1.00	16.71	8
0	GLU	A	1	26,686	25.469	6.094	1.00	19.29	6
N	GLU	A	+	27.621	24.801	6.521	1.00	18.97	8_
CA	LYS	A	1	26.786	26.757	5.833	1.00	19.94	7
CB	LYS	1	1	27,969	27.550	6.134	1.00	20.57	6
	LYS	A	1	29.088	27.407	5.117	1.00	23.02	6
C	LYS	A	1	30,476	27.636	5.704	1.00	21.33	6
CE	LYS	A	1	30.817	29.119	5.749	1.00	20.79	6
NZ	LYS	A	1	32.283 32.453	29.325 30.430	6.102	1.00	18.62	6
C	LYS	A	1	27.477	28.996	7.087	1.00	22.09	7
ŏ	LYS	Â	1	27.588	29.801	6,252 5.335	1.00	21.04	6
N.	ALA	Â	1	26.826	29,254	7.380		21.85	8
CA	ALA	Â	î	26.207	30.540	7.651	1.00	21.26	7
CB	ALA	Â	쉬	24,777	30.350	8,145	1.00	22.03	5
C	ALA	A	1	27.006	31.365	8.643	1.00	17.02	6
ŏ	ALA	Â	i	26.490	32.344	9.197	1.00	23,37 25,73	8
Ň	SER	Â	î	28.278	31.032	8.842		23.12	휩
CA	SER	Â	_		-	9.733		23.49	6
			_	TENAUT.	VAIVAT I	w.140	1.00	£9.47	ب

Ci	BISER		1	20.107	20.02	2 10 405	1.00	100 5	
님	SER	_	\mathcal{H}	30.187 30.945					
Ċ	SER		_	29.753			1.00		
ŏ	SER	_	_	30.941	32.962		1.00		
N	THE			28.929			1.00	_	
C.				29.327	35.046			_	_
Ci		_	_	28.751	35.080		1.00		
O	THE		_	27.347	35,382		1.00	22.12	
C	THE	_	Ιì	28.954	33.781		1.00	16.87	_
C	THE	_	_	28.827	36.288		1.00	23.72	_
lŏ	THE	_	Ti	27.950	36.195		1.00	24.19	_
N	PRO		Ti	29.316	37.457		1.00	24.41	7
Ċ	PRO	_	1	30.360	37.644		1.00	24.34	6
CA		_	Τî	28.891	38.718		1.00	25.09	
CE			lî	29.459	39.754		1.00	25.21	6
C	PRO	1 A	ti	30.683	39,111	7.107	1.00	24.81	6
C	PRO		Τî	27.385	38.854	8.766	1.00	26.19	6
Ö	PRO	TA	Τî	26.860	39.216	9.820	1.00	26.80	8
N	LEU	Ā	1î	26.649	38.559	7.699	1.00	26.66	7
CA	LEU	Ā	1î	25.198	38.611	7.668	1.00	26.40	6
CB		A	lì	24.707	38.491	6.223	1.00	27.52	6
C	LEU	Ā	Î	23.511	39,326	5.775	1.00	28.54	6
C	LEU	TÂ	lî	23.621	40.777	6.217	1.00	27.00	6
C	LEU	Â	li	23.355	39.254	4.261	1.00	28.22	6
C	LEU	IA	Tî	24.573	37.516	8.524	1.00	26.06	6
0	LEU	IA	lî	23.518	37,713	9.128	1.00	25.03	8
N	GLY	Ā	li	25.215	36.352	8.563	1.00	26.14	7
CA	GLY	A	î	24,746	35.221	9.342	1.00	26.26	6
C	GLY	A	lī	24.916	35.436	10.841	1.00	26.88	6
0	GLY	A	1	23.988	35,190	11.616	1.00	26.92	8
N	VAL	A	li.	26.104	35.869	11.257	1.00	27.33	7
CA	VAL	A	Ιī.	26,345	36,126	12,680	1.00	28.17	6
CB	VAL	A	1	27.834	36.302	13.000	1.00	29.36	6
С	VAL	A	1	28.057	36.503	14.492	1.00	30,77	6
C	VAL	A	1	28.629	35.096	12,516	1.00	29.20	6
C	VAL	A	1	25.536	37.351	13.100	1.00	27,85	6
Q.	VAL	IA.	1	24.751	37.307	14.046	1.00	27,96	8
N.	GLY	IA.	2	25,652	38.425	12.326	1.00	27.37	7
CA	GLY	A	2	24,911	39.646	12.580	1.00	27.30	6
<u>c</u>	GLY	Α	2	23,403	39.455	12.607	1.00	27.03	6
0	GLY	A	2	22.738	39,970	13.505	1.00	27.08	8
N	GLY	IA.	2	22,838	38.762	11.627	1.00	26.23	7
CA	GLY	A	2	21.413	38,550	11.495	1.00	24.79	6
lč-	GLY	A	2	20.776	37.836	12.672	1.00	24.76	6
ļ <u>Ģ</u>	GLY	A.	2	19.736	38.245	13.187	1.00	25.40	8
N.	PHE	A	2	21.406	36,755	13.116	1.00	24.57	7
CA	PHE	A	2	20,938	35,996	14,269	1.00	24.30	6
C	PHE	A	2	21.573	34.611	14.314	1.00	22.09	6
c	PHE	A		20.910	33.583	13.445	1.00	21.81	6
C_	PHE	A A	2	21.598 19.605	33.006	12,390	1.00	22.56	6
CE	PHE	A	2	20.998	33.183	13.683	1,00	21.56	6
CE	PHE	A	2	18.998	32.056 32.232	11.585	1.00	20.56	6
CZ	PHE	A	2	19.699	31.668	12.885		21.92	6
C	PHE	A	2	21.280	36.791	11.835		20.90	<u>6</u>
ŏ	PHE	A	2	20.522	36.827	15.531 16.493		24.51	6
N	GLY	A	2	22.385	37.529	15.481		23.72	7
CA	GLY	A	2	22.787	38.466	16.513	4.4.4	25.54	_
C	GLY	Â	2	21.755				27.69	6
ŏ	GLY	Â	2	21.429	39.569	16.716		29.46	6
Й	ALA	Â	2	21.197	39.940 40.082	17.845 15.625		30.10 30.15	8 7
CA	ALA	Ā	2	20.195	41.129	15.617		30.95	6
CB	ALA	A	2	19.958	41.606	14.186		31.39	6
C	ALA	Â	2	18.870	40.715	16.238			위
<u> </u>		40	~		7V. (10)	.0.400	41701	24.00	لغ

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N	ALA		$\overline{}$						
CA	ALA ALA	_	_	18.560 17.363					_
CB	_								
C	ALA		$\overline{}$	16.872 17.627					_
lŏ	ALA		_	16.754	38,463 37,938				_
N	ARC	_		18.869	38.611		1.00		
CA	ARC	_	_	19,287	38.270		_	_	
CB				18.524	39.123		1.00		_
C	ARG	_	_	18.886	40,600		1.00		_
C	ARG	_		18.409	41.314		1.00		_
N	ARG	$\overline{}$		18.620	40.498		1.00		_
CZ	ARG	_	7-	17,676	40.032		1.00		16
N	ARG	_	_	18.031	39.291	25.377	1.00		17
N	ARG	_		16.394	40.294		1.00		17
С	ARG		_	19.102	36,788	20,376	1.00		6
0	ARG			18.837	36,404	21.515	1.00	35.01	18
N	ALA	A	2	19.323	35.933	19.386	1.00	33.04	7
CA	ALA	A	2	19,103	34.501	19.508	1.00	32.04	6
CB	ALA	IA	2	18.494	33.973	18.211	1.00	31.13	6
С	ALA	A	2	20.396	33.748	19.798	1.00	31.06	6
0	ALA	A	2	20,383	32.573	20.149	1.00	30.34	8
N	LEU	A	12	21.513	34.438	19,625	1.00	31.25	7
CA	LEU	A	2	22.835	33.865	19.813	1.00	31.96	6
CB	LEU	A	2	23.775	34,494	18.780	1.00	30.13	6
C	LEU	A	2	24.331	33.694	17,612	1.00	29.17	6
С	LEU	A	2	23.350	32.683	17.050	1.00	22.09	6
С	LEU	Α	12	24.784	34.649	16.505	1.00	28.52	6
С	LEU	A	2	23.417	34,124	21,197	1.00	32.46	6
0	LEU	IA.	12	23,197	35.180	21.784	1.00	31,50	8
N_	SER	ĮA.	12	24.209	33.171	21.687	1.00	33.80	7
CA	SER	A	12	24.908	33.342	22,955	1.00	34.47	6
CB	SER	IA.	12	25,572	32.045	23.409	1.00	33,50	6
0	SER	ĮA.	2	26.593	32.316	24.358	1.00	29.58	8
<u>c</u> _	SER	IA.	2	25,975	34.425	22.784	1.00	35.41	6
0	SER	ļĄ.	12	26.492	34.604	21.680	1.00	35.11	8
N.	THR	Ą.	12	26,305	35.132	23.859	1.00	36.45	7
CA	THR	A	2	27.279	36.231	23.762	1.00	37.19	6
CB	THR	ļ	2	26.537	37.561	23.962	1.00	39.54	6
운	THR	A	2	25.655	37.753	22,832	1.00	41.74	8
c l	THR	A	2	27.416	38,794	24.035	1.00	42.95	6
ŏ	THR	A	2	28,441 29.285	36.006	24.708	1.00	36.70	6
N_	ARG	Â	2	28.636	36,866 34,756	24.973	1.00	36.29	8
CA	ARG	A	2	29.705	34.383	25.133	1.00	36,20	7
CB	ARG	A	2	29.360	33.028	26.051 26.690	1.00	36.03 35.31	6
č	ARG	A	2	30.100	32.742	27,985	1.00	37.08	6
Č	ARG	A	2	29.729	31.380	28.553	1.00	40.22	6
N	ARG	Α	2	28.718	31.483	29.599	1.00	44.00	7
cz	ARG	Α	2	27.407	31.439	29.399	1.00	47.44	6
N	ARG	A	2	26.904	31.286	28.179	1.00	48.14	7
N	ARG	A	2	26.581	31.547	30.433	1.00	48.31	7
c	ARG	A	2	31.085	34.338	25.417		36.15	6
	ARG	A	2	31.717	33,282	25.333	1.00	34.44	
	ASN	Ä	2	31.642	35,480	25,025		37.86	7
	ASN	Ā	2	32.943	35.576			40.94	6
_	ASN	Ā	2	33.150		23.797		43.10	6
c l	ASN	Ā	2	32,132	37.323	22,732		45.64	6
	ASN	Â	2	32,199	36.833	21.602		48.03	8
_	ASN	A	2	31.175	38.174	23.082		44.97	7
	ASN	Â	2	34.118	35.264	25.307		42.95	
	ASN	Â	2	35.199	34.931	24.811			5
		_	_					43.48	8
	ASP	Αl	2	33.952	35.353	26.622	1.00	45.18	7

		T.	- 1						
CE		ļΑ	_ 2	34.667	35.501		1.00	53.38	
C	ASP	ļΑ	12	33.371	34.900		1.00	58.02	
0	ASP	- ▲	12	32.291	35.360		1.00	61.40	8
0	ASP	4Α	42	33.426	33.965	30.313	1.00	60,57	8
C	ASP	JΔ	2	35.396	33.585	27.518	1.00	46.62	6
0	ASP	<u> </u>	12	36,563	33.215	27.634	1.00	46.96	8
N	ASN	LA.	_ 2	34,396	32,737	27.314	1.00	45.88	7
CA	LASN	A	2	34.589	31,298	27,205	1.00	44.67	6
CE	ASN	. A	2	34.307	30,646		1.00	47.32	6
C	ASN	IA	2	34.731	29,206		1.00	49.19	6
0	ASN	Ā	2	34.710	28.665		1.00	51.07	18
N	ASN	A	12	35.110	28.548	27.605	1.00	50.01	7
C	ASN	A	2	33.702	30.716	26.111	1.00	43.18	6
lo	ASN	Â	2	32.596	30.231		1.00	43.11	8
N	PRO	A	12	34.198		26.353	7.00		17
C		_	2		30.724	24.877		41.75	_
_	PRO	₩	_	35.503	31.329	24.497	1.00	41.44	6
L CA	PRO	₽	2	33.490	30.210	23.722	1.00	40.67	6
CB	PRO	ĮĄ.	12	34.468	30.398	22.564	1.00	40.80	6
č	PRO	ĮĄ.	2	35.391	31.478	23.004	1.00	41.02	16
C	PRO	ĮA.	12	33.042	28.763	23.813	1.00	39.35	16
0	PRO	ļΑ	12	31.944	28,425	23,353	1.00	38.82	8
N	GLN	Į∧.	12	33.830	27.881	24.419	1.00	37.99	17
CA	GLN	1₽	12	33.509	26.472	24.546	1.00	36.26	6
CB	GLN	IA.	12	34.772	25.643	24.816	1.00	39.69	6
C	GLN	A	2	35.799	25.668	23,704	1.00	44.96	16
C	GLN	IA.	12	37.042	26.454	24.073	1.00	48.84	6
lo_	GLN	A	2	36,960	27.544	24.642	1.00	49.73	8
N	GLN	LA	12	38.202	25.894	23.745	1,00	51.41	7
C	GLN	A	2	32.499	26.138	25.635	1.00	34.32	6
0	GLN	A	2	32.096	24.976	25.739	1.00	32,80	8
N	ALA	A	2	32.114	27.094	26,466	1.00	33.94	7
CA	ALA	Α	2	31.137	26,852	27.521	1,00	33.57	6
CB	ALA	Ā	2	31.693	27.300	28.865	1.00	32.53	6
C	ALA	A	2	29.837	27.588	27.213	1.00	33.31	6
Q_	ALA	Α	2	28.850	27,491	27.940	1.00	33.64	8
N	ALA	A	2	29.847	28.327	26.111	1.00	32,94	7
CA	ALA	A	2	28.700	29.104	25.669	1.00	32.57	6
CB	ALA	A	2	29.084	29,939	24.455	1.00	33.89	6
C	ALA	A	2	27,498	28,226	25.350	1.00	32.18	6
ō	ALA	A	2	26.384	28.515	25.790	1.00	32.82	8
N	SER	A	2	27.716	27.171	24.574	1.00	31.80	7
CA	SER	A	2	26.628	26.259	24.222	1.00	31,73	6
CB	SER	Ā	2	26.971	25.487	22.951	1.00	30.83	6
o o	SER	A	2	25.928	24,593			29.99	
c	SER	A	2	26.380		22.607 25.402	1.00	31.43	8
0		Â	2		25.328			31.43	
N	SER	A	2	27.148	24.394	25.621	1.00		7
CA	ARG	A	2	25.322 25.007	25.591	26.158	1.00	32.04	
CB	ARG				24.798	27.343	1.00	33.31	6
		A	2	25.527	25.523	28.594	1.00	29.80	6
C	ARG	A	2	25.136	26,984	28.718	1.00	32.62	6
Ċ	ARG	A	2	25.444	27,558	30.100	1.00	36.23	6
И	ARG	A	2	26.876	27.614	30.337	1.00	38.08	7
CZ	ARG	Α	2	27.584	26.968	31.248	1.00	38.88	6
N	ARG	A	2	27.022	26,152	32.126	1.00	39.67	긔
N	ARG	Α	2	28,900	27,145	31,292	1.00	39.59	7
С	ARG	A	2	23.517	24.530	27.476	1.00	34.27	6
0	ARG	Α	2	22.812	25.153	28.273	1.00	34.34	8
N	PRO	Α	2	23.011	23.604	26.668	1.00	34.77	7
С	PRO	Α	2	23.759	22.798	25.680		34.63	6
CA	PRO	Α	2	21.596	23,290	26.663		35.68	6
CB	PRO	Ā	2	21,414	22,259	25.563		34.95	6
C.	PRO	A	2	22,771	21,759	25,235		35.12	6
Č	PRO	Ā	2	21.117	22.787	28.008		36.80	6
ŏ	PRO	Â	2	21.718	21.928	28.647		36.75	8
<u>~ 1</u>	444	0	4	M4.110	44.340	±0.04 f	1.00	vu.(i)	0

N	TRP	A	_	20.006	23.348	28.471	1.00	38.16	Ι
CA	TRP	A	2	19.340	23.015	29.712	1.00		_
CE	TRP	A	2	19.102	21.506		1.00		_
С	TRP	TA	2	18.105	20.982		1.00		T
C	TRP	A		18,371	20.039		1.00		1
CE		Ā	_	17.161	19.826		1.00		+
CE		Ā		19.518	19.357				_
C	TRP	_	_				1.00		
		14	_	16.781	21.294	28.719	1.00	_	
N	TRP	₽¥.	12	16.206	20,601	27.681	1.00		4
CZ	TRP	.μΔ		17.062	18.957		1.00	32.45	1
CZ	TRP	ĮA	12	19.420	18.496	26.268	1.00	34.32	1
<u>c</u>	TRP	ŲA	12	18,199	18.306	25.607	1.00	34.41	L
C	TRP	<u> A</u>	12	20.014	23.518	30.980	1.00	41.79	T
0	TRP	A	2	19.477	23.335	32.077	1.00		Τ
N	ASP	A	2	21.147	24.190	30.865	1.00		T
CA	ASP	A	2	21.818	24.835	31.980	1.00		Ť
CB		IA	2	23.278					_
C		_	_		25.103	31,631	1.00	7	+
	ASP	₽	12	24.118	25.502	32.825	1.00	_	1
0	ASP	ļΔ	12	24.475	26.697	32,926	1.00	42.68	1
<u> </u>	ASP	ĮA,	12	24.445	24.622	33,647	1.00	42.29	L
<u>c</u> _	ASP	J٨	12	21.084	26,137	32,293	1.00	45.89	
0	ASP	Α	2	20,438	26,712	31.414	1.00	46.28	T
N_	LYS	A	12	21.191	26.613	33.526	1.00		7
CA	LYS	A	2	20.516	27.826	33.956	1.00	46.61	t
CB		Ā	2	20.543	27.916	35,490	1.00		T
C	LYS	Ä	2	21.936	28.097	36.070			_
č	LYS	A	2	21.944			1.00	4	H
_		_			29.115	37.199	1.00	54.74	Ľ
CE	7	ΙŸ	12	22.163	30.525	36.679	1.00	56.43	4
NZ		A	2	23.250	31,225	37.419	1.00	57.67	Ľ
<u>c</u>	LYS	A	2	21.084	29,104	33,361	1,00	46.01	10
0_	LYS	A	2	20,356	30.093	33.235	1.00	45.69	L
N_	GLU	A	2	22.357	29.115	32.989	1.00	45.88	Ľ
CA	GLU	A	2	23.003	30,286	32.424	1.00	45.19	Ī
CB	GLU	A	2	24.486	30,296	32.810	1.00	49.81	1
C.	GLU	A	2	24.786	30,476	34.291	1.00	55.39	e
Ċ	GLU	A	2	26.292	30,404	34.508	1.00	58.82	É
ō	GLU	A	2	26.965	31.416	34.221	1.00	61.25	8
ŏ	GLU	Â	2	26.780	29.338	34.934	1.00		_
č	GLU	A	2	22.903				61.03	8
					30.411	30,910	1.00	43.34	6
<u>O</u>	GLU	À	2	23.571	31.282	30,338	1.00	43.47	18
<u>N</u>	ARG	ļĄ.	12	22,109	29.591	30,240	1.00	41.68	L
CA.	ARG	IA.	12	21.890	29,686	28.809	1.00	39.75	6
CB	ARG	A	2	20.645	28.904	28.382	1.00	39.29	6
C_	ARG	A	2	20.740	27.401	28.338	1.00	38.54	6
ပ	ARG	A	2	19.370	26,750	28.281	1.00	40.21	6
Z	ARG	A.	2	18.358	27.433	29.063	1.00	45.53	7
cz	ARG	A	2	17.272	26.884	29.592	1.00	49.23	6
N	ARG	A	2	17.009	25.593	29.440	1.00	50,93	7
7	ARG	Â	2	16.428	27.637	30.289			_
	ARG						1.00	51.50	7
		À	2	21.617	31,124	28.362	1.00	38.38	6
9	ARG	Ą.	2	20,788	31,790	28,984	1.00	38,95	8
<u>Z</u>	ASP	A.	2	22,224	31,545	27,262	1.00	36,70	7
CA	ASP	A	2	21,954	32,878	26,731	1.00	35.08	6
CB	ASP	A.	2	23.014	33,878	27.184	1.00	33,06	6
2	ASP	Α	2	24,383	33.649	26,586	1.00	31.30	6
<u> </u>	ASP	Ã	2	24.752	32,483	26.343	1.00	31.19	8
5 [ASP	A	2	25.108	34.639	26.356	1.00	34.92	8
	ASP	Ä	2	21.817	32,864	25.211	1.00	34.13	6
5	ASP		2						_
		Ą		21.991	33,908	24.576	1.00	34.59	8
<u> </u>	CLY	Ą۱	2	21.480	31,719	24.622	1.00	32.88	7
ZAĮ	GLY	A	2	21.288	31.637	23.180	1.00	31.77	6
2-4	GLY	A	2	22.078	30.521	22.513	1.00	30.48	6
1	GLY	A	2		29.997	23.082	1.00	31.75	8
4	PHE	Α	2		30.148	21.293	1.00	28.57	7
		_							-

	C.	Δĺ	PH	E	Α	12	22.37	1	29.00	37	20.58	7	1.0	0	25.	74	6	•
	C	ВΙ	PH	E	A	12			28.41		19.54	_	1.0		25.1		6	•
	C	\neg	PH	E	A	I_2			29.11		18.25	_	1.0		24.9		6	•
	C	Т	PH	_	A	12			29.02		17.203		1.0	_		19	6	•
	C	┪	PH	_	Ā	2			29.87		18.07	_	1.0	_	23.2			•
	C	F	PH	Ī	Â	2				_		_	_	_			6	
	Ci	_						_	29.68		16.00	_	1.0		25.5		6	
	_	_	PH		Ą	12			30.53		16.884		1.0		24.3		6	
	C	4	PH		A	12		_	30.43		15.848	<u> </u>	1.0	익	25.5		6	
	C	+	PH.		Α	2		_	29.49		20.01		1.0	0	23.8	5	6	
	O	4	PH.		Α	12		<u> </u>	30.67	6	19.954	Ł	1.0	0	22.6	9	8	
	N	4	VAI		A	12	24.51	2_	28.50	1	19.649)	1.0	0	23.4	0	7	
	CA	11	VAI		A	2	25.82	7_	28.72	7	19.061		1.0	0	23.1	4	6	•
	CI	<u> 1</u> 1	VAI		Α	2	26.963	3	28.06		19.845		1.0	_	21.8	_	6	•
	C		VAI	\Box	Α	2	28.308	3 ·	28.31		19.177		1.0		21.0	_	6	•
	C		VAI		A	2	27.009		28.56		21.282	_	1.00	_	26.1	_	6	•
	C		VAI		A	2	25.815		28.22		17.615		1.00		22.8		6	•
	0		VAI		Ā	2	25.369		27.12			+	_	_				•
	N		LEU		A	2	26,245			-	17.331	+	1.00		21.5		8	
	CA		LEL		_	2		_	29.08		16,701	+	1.00		23.8		7	
	CE	_		_	٠	_	26.240		28.79		15.274	4	1.00	_	25.1		6	
	C	_	LEL		Ă.	2	26.346	4	30.11		14.519	4	1,00	_	29.6		6	
	_		LEL		A	2	25.871	4	30,274		13.085	4	1,00	1	33.4	4	6	ı
	Č	_	LEL		A	2	24.777		29.29	<u> 1</u>	<u> 12.696</u>	4	1.00	1	35.4	5_	6	
	<u>c</u>	_	LEU	-	A	2	25,382		31.70		12.865	4	1.00	Ц	34.2	П	6	
	<u>C</u>		LEU		Α.	2	27.377	4	27,868	3	14.868	┙	1,00	1	25.0	5	6	ı
	0		ŒŲ		Α.	2	28.507	1	28.038	Ц	15.327	1	1.00		25.49	9 [8	ı
	N.	49	<u> GLY</u>	1	A	2	27,086		26,903	3	14.001		1.00	ď	24.1	5 T	7	
	CA	10	<u> CLY</u>	1	A	2	28.085	I	25.959	ī	13,531	Τ	1.00	ī	24.1	П	6	İ
	C	10	<u> SLY</u>		Α	2	27.960	T	25.662	Π:	12.042	Т	1.00		24.6		6	ı
	0	10	LY	T	A	2	26.880	Т	25.754	П	11.456	T	1.00	7	25.37		8	i
	N	$\mathbf{I}_{\mathbf{A}}$	SP	Т	A.	2	29,069	7	25.277		11.419		1.00		24.44		7	
	CA		SP	Т.	A.	2	29.110	7	24.945		10.007		1.00		23.88		6	
	CB		SP		A	2	30,222		25.682		9.261	~	1.00	7	23.99		6	
I	С	T	SP	┰	A	2	30.213		27.180		9.450	_	1.00		24.50		6	
ĺ	ō		SP	_	Ā	2	29.125	_	27.786	_	9.377	7	1.00		29.71		8	
	0		SP		Ā	2	31.298		27.752	_		_					_	
ı	C		SP		A	2	29.361				9.676	+	1.00	_	25.78	_	8	
ı	ŏ		SP	_	À	2			23.450	_	9.804	+	1.00		23.41	_	5	
I	N	_	LY			2	29,973	_	22.805		10.654	_	1.00		23.79		<u>-</u>	
ł	CA				A		28,949		22,941		8.644	_	1.00		22,27	_	4	
ì		_	LY		4	2	29,191		21,541		8.336	_	1.00		21.31	_	<u>1</u>	
ł	<u>Č</u>		LY		1	2	28.186		20.948	_	7.363	7	.00	_	20.58		ᅬ	
ľ	0	_	LY	_	4	2	27.441	7	21.636	_	5.671		1.00		20.04		ᅬ	
l	N_		<u>LA</u>	_	1	2	28.193	_	(9.621		7,305	μ	.00		0.48	43	니	
ŀ	CA		LA	_	4	2	27.344	_	8.872		5.393	L	.00	12	1.61	16	Ц	
l	<u>CB</u>		LA.	14	_	2	27.762	μ	9.108	4	.948	Ц	.00	12	0.78	16	IJ	
l	<u>c</u>	_	LA_	14	_	2	27,433	ш	7.380	Į.	5.706	L	.00	12	1.99	16	<u>IJ</u>	
ŀ	0		LA	14		2	28,522	μ	6.846		.890	L	.00	2	2.37	18	<u>. </u>	
Ļ	N		<u>LY</u>	14		2	26,278	L	6.745	L	.779_	1	.00	2	2.26	17		
Ĺ	CA		LY	A		2	26.193	u	5.310	L	.029	U	.00	2	3.98	6		
Ļ	C	G	<u>LY</u>	1.	щ	2	25,442	1	4.711	5	.837	1	.00	2	5.43	8		
	0	G	LY	A	1	2	24.558	Ĺ	5,374	5	.292	1	.00		5.88	8		
	N.	M	EΤ	A		2	25.809	1	3.502	5	.442	ī	.00		6.56	7	7	
ĺ	CA	M	ET	A		2	25.162	_	2.884	_	.284	_	.00		7.91	6	7	
	CB	M	ET	LA		2	25.987	_	3.213		.041		.00		7,89	6	٦.	
-	C.		ET	A		2	25.234		3.503		.769		.00	_	0.30	6	\dashv	
-	SD		EŢ	A		2	24.418	7-	5.099	_	.678	_	.00	_	1.13	l	\dashv	
	CE		ET	A		2	25.677		6.204	_	.299		.00		2.90	6	┨	
	C		EΤ	A	_	2	25.054		1.381	_		-	_			_	\dashv	
-	ŏ		ET	A	1		26.020				.482	-	00		9.36	6	4	
•	N		Ü	_	_	_			0.774		952		00		0.39	8	-1	
_				Á	12		23.891		0.802		.184		00		9.56	7	-	
	CA	_	<u>u</u>	Ą	+2	+	23.748		362	_	290	_	00		0.24	6	4	
	CB		U	Ā	13	_	22.869		838	_	406		00).18	6	4	
•	<u>c</u>	_	U	Ā	12	_	22.076		717		348	_	00		9.17	6	┙	
	<u> </u>	L		Δ	12	_	21.017		902		.084	1.	00	29	29	6	1	
	C	LF	Ü	A	12	Ц	22.986	10	2,389	7.	364	1.	00	30	0.62	6	L	

002050		J ,	A 2	23.559	9.447	2.213	1.00	32.20) 8
N CA CE	VAI VAI		A [2	23.559					_
C/ CI	VAI	_			7.529	19753	1100	1 1 22 00	
CE									
_			1/2				1.00		_
LC			1/2			0.970	1.00	31,99	16
	VAI		1 2			-0.190	1.00	33.53	6
C	VAL	- 14	1 2	25.261	6.577	0.485	1.00	31.64	6
LC.	VAL	_	_		5.964	2,178	1,00	32,37	6
0	VAL	/	1 2	22.003	5.194	3.124	1.00		_
N	LEU	1 /	1 2	20.675	6.234	1.633	1.00		
CA	LEU	IA	1 2	19.473	5.506	2.023	1.00		6
CB	LEU	I	1 2	18.307		2.270	1.00		
С	LEU	T A	1 2	18.303		3.561	1.00		6
С	LEU	_	_	17.139		3.566	1.00	_	16
C	LEU			18.230	6.365	4,779	1.00		6
С	LEU			19,146	4.547	0.882	1.00		
0	LEU	_		19,229	4.984	-0.271		33,63	16
N	GLU		_	18.806	3.297	1.169	1.00	33.36	18
CA	GLU		_	18.428			1.00	35.24	17
CB		_		19.635	2,403	0.074	1.00	37.02	6
C	GLU	_	_	20,444	1.854	-0.663	1.00	39.18	16
ç	GLU		2		0.775	0.026	1.00	41.57	16
ŏ	GLU	_	2	21.610	0.335	-0.845	1.00	43.33	16
ŏ	GLU	ŦŸ		22,733	0.832	-0.631	1,00	42.15	8
	_	 	12	21.393	-0,501	-1.748	1.00	46.02	<u> B</u>
츳	GLU	1A	12	17.490	1.295	0.538	1.00	37.80	6
0	GLU	ļĄ	12	17.315	1.048	1.729	1.00	37.74	18
N.	GLU	₽¥	2	16,774	0.747	-0.440	1.00	38.04	7
CA	GLU	ļΑ	12	15.789	-0.298	-0.182	1.00	38.80	6
<u>CB</u>	GLU	ļΑ	12	14.981	-0.568	-1.450	1.00	38.06	6
<u>c</u> .	GLU	ļĄ	2	13,782	-1.481	-1.233	1.00	33.93	6
<u>č</u> –	GLU	₽	12	14.167	-2.937	-1.445	1.00	33.44	6
<u> </u>	GLU	ļΑ	2	15.034	-3.194	-2.308	1.00	31.55	8
<u>o</u> _	GLU	A	2	13.612	-3.797	-0.734	1.00	31.76	8
<u>c_</u>	GLU	A	12	16.475	-1.555	0.338	1.00	39.50	6
0	GLU	A	2	17.517	-1.974	-0.159	1.00	38.79	8
N	TYR	I A	12	15,880	-2.163	1.355	1.00	41.62	7
CA	TYR	Α	2	16.427	-3.344	1.999	1.00	44.09	6
CB	TYR	A	12	15.416	-3.907	3.007	1.00	47.05	6
C	TYR	IA.	12	15.966	-5.062	3.815	1.00	51.46	6
C	TYR	A.	2	17.060	-4.900	4.653	1.00	53.28	6
CE	TYR	Α	2	17.559	-5.961	5.385	1.00	55.01	6
<u>c</u>	TYR	A	2	15,386	-6,320	3.726	1.00	53.44	6
CE	TYR	Α	2	15.880	-7.387	4.453	1.00	55.01	6
CZ į	TYR	Ā	2	16.965	-7.200	5.281	1.00	55,79	6
0	TYR	Α	2	17,458	-8.260	6.005	1.00	56.98	8
	TYR	A	2	16.892	-4.439	1.056	1.00	44.36	6
o l	TYR	A	2	18.074	-4.800	1.067	1.00	43.99	8
N	GLU	Α	2	16.001	-4.973	0.230	1.00	44.51	7
CAL	GLU	A	2	16.327	-6.045	-0.699		45.08	6
СВ	GLU	Α	2	15.054	-6.560	-1.380		46.87	6
7	GLU	Ā	2	14.085	-7.234	-0.421			6
2	GLU	Α	2	14.666	-8.461	0.254			_
5	GLU	A	2	14.917	-9.469			_	<u>6</u>
_	GLU	Â	2	14.879		-0,439			8
_	GLU	Â	2		-8,424 5 CZ2	1.483			8
_	GLU	A		17.379	-5.678	-1.732			6
_			2	18.145	-6.545	-2.162			8
_	HIS	Ą	2	17.454	-4.415	-2.130			7
_	HIS	Ą	2	18.467	-3.936	-3.055			6
B	HIS	A	2	18,143	-2,502	-3.484	1.00 4	40.61	6
_	HIS	Αl	2	19.076	-1.926	-4.501		35.46	6
		_							
	HIS	A	2	18.978	-1.839	-5.848	1.00	33.88	6
	HIS HIS	A A	2	20.277	-1.839 -1.340	-5.848 -4.168			6 7
E	HIS	A					1.00	34.67	

	1		٦,	1.0.000		1			Τ.
C	HIS	\bot A	12	19.852		-2.410	1.00	47.38	6
10	HIS	_ A	. 2	20.841	-4.346	-3.035	1.00	47.01	8
N	ALA	A	2	19.918		-1.146	1.00		7
	$\overline{}$	_							_
CA	ALA	\perp A	2	21,156		-0.387	1.00	51.58	6
LCB	ALA	I A	2	20.957	-2.642	0.850	1.00	50.94	6
C	ALA	A	2	21.672	4.883	0.025	1.00		6
_		_	_						_
0	ALA		12	22.872	-5.150	-0.033	1.00	53.00	8
l N	LYS	I A	2	20.762	-5.756	0.439	1.00	55,23	7
CA	LYS	_	_						_
		-↓Δ	2	21,119	-7.119	0.829	1.00	57.65	6
CB	LYS	_ A	2	19.908	-7.816	1.441	1.00	60.63	6
С	LYS	TΑ	2	20.032	-9.315	1.639	1.00	65.05	6
_		_	_						_
C	LYS	$\perp A$	12	18.678	-9.947	1.929	1.00	67.78	6
CE	LYS	A	2	18.832	1 -	2.540	1.00	69.75	6
NZ	LYS	TA	12	17.937	Τ.	3.715	1.00		7
_		_			+				_
C	LYS	A	2	21.651	-7.883	-0.379	1.00	58.57	6
10	LYS	LA	12	22.648	-8.601	-0.295	1.00	59.09	8
N	LYS	A	2	21.013	-7.719				
		_				-1.532	1.00		17
CA	LYS	$\perp_{\mathbf{A}}$	12	21.396	-8.367	-2.775	1.00	59.54	 6
CB	LYS	A	2	20.417	-7.977	-3.889	1.00	61.74	6
C			_						
	LYS	ĮĄ.	12	20.739	-8,548	-5.257	1.00		6
C	LYS	İΑ	2	19,526	-8.538	-6,174	1.00	67.02	6
CE	LYS	A	2	18.684	-9.790	-5,989	1.00		6
		7				7			_
NZ		ĮĄ.	12	17,562	-9,562	-5.037	1.00	69.74	7
C	LYS	A	2	22.823	-8.063	-3.209	1.00	59.47	6
0	LYS	A	2	23.481	-8.928	-3.797	1.00	59.77	8
N			2						
	ARG	IA.		23.316	-6,854	-2.971	1.00	59.19	17.
CA	ARG	A	2	24.684	-6.494	-3.318	11.00	58.96	16 J
CB	ARG	TA	2	24,750	-5.060	-3.845	1.00	64.49	6
_									
C	ARG	IA.	2	24.662	4.964	-5.361	1.00	70.34	6
LC_	ARG	A	12	23.628	-3.938	-5,797	1.00	75.18	6
N	ARG	A	2	22.590	-4.519	-6.639	1.00	79.23	7
CZ									_
	ARG	IA.	2	21,967	-3.901	-7.633	1.00	81.69	6
N	ARG	LA_	2	22.262	-2.646	-7.948	1.00	83.33	7
N	ARG	A	2	21.033	4.539	-8.329	1.00	82.48	7
		_	_						_
C	ARG	Α	2	25.622	-6.683	-2.129	1.00	57,70	6
0	ARG	Α	2	26.843	-6.647	-2.276	1.00	57.09	8
N	GLY	A	2	25.063	-6.888	-0.942	1.00	56.76	7
			_						
CA	GLY	A	12	25.818	-7.122	0.271	1,00	55.73	6
C	LGLY	A	12	26,477	-5.887	0,860	1.00	55.04	6
0	GLY	A	2	27.669	-5.896	1.171	1.00	55.17	8
N									
	ALA	Α	2	25.704	-4.826	1.051	1.00	54.08	7
CA	ALA	Α	2	26.217	-3.573	1.579	1.00	52.80	6
CB	ALA	Α	2	25.297	-2.438	1.128	1.00	52.47	6
C									
	ALA	A	2	26.349	-3.532	3.095	1.00	51.83	6
0	ALA	A	2	25.664	-4.236	3.829	1.00	51.72	8
N	LYS	Α	2	27.193	-2,616	3.565	1.00	51,12	7
CA	LYS	A	2	27.295	-2.288				_
_					_	4.982	1.00	50.26	6
CB	LYS	A	2	28.369	-1.226	5.205	1.00	53.24	6
С	LYS	A	2	29.768	-1.712	5.519	1.00	56.48	6
C	LYS	A	2						
				30,667	-0.551	5,931	1.00	58.30	6
CE	LYS	Α	2	31.652	-0.193	4.830	1.00	60.07	6
NZ	LYS	A	2	32,926	-0.955	4.954	1.00	60.39	7
C			_						_
	LYS	A	2	25,952	-1.720	5.445	1,00	48.90	6
0	LYS	Α	2	25.615	-0.610	5.024	1.00	49.32	8
N	ILE	A	2	25,198	-2.448	6.257	1.00	47,08	7
_		_							
CA	ILE	Α	2	23,908	-1.931	6.720	1.00	45.16	6
CBI	ILE	Α	2	22,789	-2.978	6.630	1.00	47.32	6
C	ILE	A	2	21.571	-2.590	7.459	1.00	48.62	6
		_							
C.	ILE	Α	2	22,379	-3.171	5,165	1.00	48.61	6
C	ILE	A	2	21.380	-4.277	4.914	1.00	49.33	6
С	ILE	A	2	24.061	-1.379				_
						8.132	1.00	43.27	6
Q.	ILE	A	2	24.130	-2,120	9.109	1.00	43.57	8
N I	TYR	A	2	24,085	-0.055	8.243	1.00	40.91	7
	TYR		2						
UAI	AIR	A	4	24.251	0.633	9.510	1.00	38.29	6

_			<u> </u>						
CB			_	24.564	2.118	9.276	1.00		
lc-	TYR	-ΙΑ		25,973	2.410	8.826	1.00	_	
IC.	TYR	ŲĄ.		26.265	2.576	7.480	1.00		_
CE	TYR	14	_	27.553	2.850	7.058	1.00		_
<u> </u>	TYR	4		27,007	2.532	9.744	1.00		_
CE	TYR	14	_	28.298	2.805	9.331	1.00	32.34	16
CZ	TYR	14	12	28.562	2.963	7.990	1.00		
Ö	TYR	-∤♠	2	29.843	3.235	7.572	1.00	33.91	8
<u>ç</u>	TYR	┪	12	23.010	0.588	10.393	1.00	37.77	16
0	TYR	₽¥.	12	23.112	0.610	11.619	1.00	37.81	8
N	ALA	إ م	12	21.839	0.629	9.769	1.00	37.28	17
CA CB	ALA	1A	2	20.581	0.637	10.500	1.00	36.62	6
C	ALA	TA	2	20.556	1.758	11.528	1.00	37.87	16
ŏ	ALA	TÂ	2	19.407	0.791	9.536	1.00	36.09	16
N	GLU	A	2	19.578 18.214	0.861	8.320	1.00	35.78	8
CA	GLU	1A	2	16.988	0.971	9.338	1.00	35.82	17
CB	GLU	Â	12	16.120	-0.270	9.577		35.66	6
C	GLU	Ā	12	14.914	-0,407	8.670	1.00	37.13 40.33	6
C	GLU	A	12	14.032	-1.593	8.998	1.00	41.53	6
ō	GLU	A	2	12.858	-1.611	8.569	1.00	42.20	8
0	GLU	A	2	14.495	-2.527	9.684	1.00	44.11	8
b	GLU	A	12	16.206	2.219	9,719	1.00	35.25	6
0	GLU	IA	2	16.047	2.517	10.903	1.00	35.55	8
N	LEU	A	2	15.720	2.940	8,714	1,00	35.26	7
CA	LEU	Ā	2	14.875	4.109	8.973	1.00	35.14	6
CB	LEU	A	2	14.941	5.121	7.842	1.00	37.51	6
C	LEU	IA	2	14.734	6.596	8.200	1,00	38.88	6
C_	LEU	IA.	12	14.959	7,476	6.980	1.00	39.79	6
C	LEU	Α	2	13.347	6.835	8.775	1.00	39.55	6
<u>c</u>	LEU	A	2	13.459	3.548	9.133	1.00	34.67	6
0	LEU	ļĄ.	2	12.973	2.920	8.188	1.00	34.29	8
N CA	VAL VAL	ļĄ.	2	12,895	3.592	10.335	1.00	34.72	7
CA CB	VAL	A	2	11.617	2,935	10.582	1.00	34.44	6
č	VAL	A	2	11.705 12.615	1.917 0.751	11.743	1.00	34.57	6
č i	VAL	A	2	12.178	2.591	13.021	1.00	34.70 33.08	6
č	VAL	Â	2	10.470	3.886	10.886	1.00	34.39	6
ŏ	VAL	A	2	9.314	3.451	10.859	1.00	34.63	8
N	GLY	A	2	10.762	5.143	11.202	1.00	33.88	7
CA	GLY	A	2	9.705	6.096	11.517	1.00	33.36	6
c	GLY	Α	2	10.056	7.521	11.115	1.00	33.06	6
0	GLY	A	2	11,207	7.948	11.198	1.00	32.88	8
N	PHE	Α	2	9.045	8,266	10,676	1.00	32.28	7
CA	PHE	A	2	9,210	9.662	10.292	1.00	31,30	6
CB	PHE	A	2	9.510	9,826	8.806	1.00	28.59	6
c 1	PHE	A	2	9.670	11.243	8.332	1.00	26.83	6
<u>c</u>	PHE	A	2	10.350	12.190	9.078	1.00	25.03	6
C	PHE	A	2	9.142	11.628	7.107	1.00	26.91	6
CE!	PHE	A	2	10.483	13,492	8.636	1.00	23.91	6
CE	PHE	A	2	9.283	12.923	6.648	1.00	27.39	6
CZ	PHE	Ą	2	9.956	13.857	7.415	1.00	25.55	6
8	PHE	Ą	2	7.959	10.450	10.674	1.00	30.86	6
	PHE	Ą	2	6.861	10.129	10.222		31.29	8
	GLY	Ą	2	8.133	11.468	11.508		30.72	긔
	GLY	A	2	7.022	12,288	11.963		30.39	<u>6</u>
	GLY GLY	À	2 2	7.260	13,770	11,707		30.81	6
	MET	A	2	8.373	14.278	11.829		30.69	8
_	MET	Â	2	6.197 6.247	15.801	11.324		30.70	7
	MET	A	2	6,123	15.891	11.031		30.12	6
_	MET	A	2	7,226	16.172 15.696	9,536 8.618		29.88 29.92	<u>6</u>
_	MET	Â	2	6,633	15.492	6.924			튀
รมา									
	MET			6.376	17.202	6.467		34.18 37.05	1 6

C	MET	۵	12	5.090	16.631	11.707	1.00	29.62	6
Q	MET	<u> </u>	12	3.994	16.089	11.829	1.00	29.55	8
N	SER	A	12	5.320	17.892	12.046	1.00	29.54	7
CA	SER	Α	12	4.278	18.725	12.629	1.00		6
CE	SER	A	2	4.122	18.390	14.119	1.00	30.34	6
Q	SER	TA	2	5,115	19.081		1.00	29.32	8
C	SER	ĪΑ	2	4.615	20.207		1.00		6
ГО	SER	A	2	5.715	20.579		1.00		8
N	SER	A	2	3.671	21.054		1.00		7
CA		A	2	3.872	22.489		1.00		6
CB		TA	2	3.231	23.285		1.00		6
0	SER	TA	2	3.053	22.555		1.00		18
C	SER	Ä	2	3.324	22,997		1.00	7	6
0	SER	A	12	2.380	22.420		1.00		8
N	ASP	Ā	2	3.914	24.073		1.00		17
CA	ASP	A	2	3.515	24.660		1.00		6
CB		Ā	2	4.679	25.459			_	_
C	ASP	A	2	5.764		16.645	1.00		6
		_			24.604	17.259	1.00	25.31	16
0	ASP	1A	12	5.563	23.380	17.390	1.00	23.22	8
C	ASP	1A	12	6.818	25,182	17.601	1.00	20.63	8
_	ASP	ļĄ	12	2.342	25,623	15.912	1.00	34.31	16
10	ASP	1A	12	1.535	25,753	16,831	1.00	35.57	18
N CA	ALA	A	2	2.280	26.342	14.796	1.00	35.24	7
LCA CB	ALA	ļĄ.	2	1.222	27.322	14.562	1.00	35.86	16
CB		₩.	12	-0.098	26.614	14.305	1.00	36.57	6
lc_	ALA	A	12	1.139	28.258	15,764	1.00	36.24	6
9	ALA	A	2	0.082	28,434	16.366	1.00	36.52	8
N	TYR	ļĄ.	2	2.274	28,851	16.119	1.00	36.71	17
CA	TYR	ļA.	2	2,392	29,675	17.311	1,00	37.36	6
CB	TYR	ļĄ.	2	3.032	28.830	18,431	1.00	39.14	6
C_	TYR	ļĄ.	2	3.145	29.584	19.738	1.00	42.32	6
lç_	TYR	IA.	12	2.036	29.771	20,552	1.00	43.82	6
CE	TYR	Α	2	2.134	30.479	21.735	1.00	45.38	6
C	TYR	A	2	4.355	30,135	20.138	1.00	43,48	6
CE	TYR	A	2	4.463	30.845	21.317	1.00	44.72	6
CZ	TYR	A	2	3.348	31.013	22.110	1.00	46.22	6
0_	TYR	A	2	3,449	31,720	23.288	1.00	47.70	8
C_	TYR	Α	2	3.179	30.949	17.058	1.00	37.20	6
0_	TYR	Α.	2	2.594	32.032	16.980	1.00	37.11	8
N	HIS	A	2	4.497	30,850	16.925	1.00	37.26	174
CA	HIS	A	2	5.335	32,021	16.677	1,00	38.24	6
CB	HIS	A	2	6.002	32.471	17.973	1.00	39.44	6
LC_	HIS	Α.	2_	6.665	33,811	17.927	1.00	42.02	6
C	HIS	Α	2	6.167	35.060	18.087	1.00	42.79	6
N_	HIS	Α	2	8.017	33.965	17.701	1.00	43,00	7
CE	HIS	A.	2	8.325	35.248	17.719	1.00	43.48	6
N	HIS	Α	2	7.220	35.934	17.952	1.00	45.06	7
C	HIS	Α	2	6.369	31.723	15.598	1.00	38.89	6
0	HIS	A	2	6.782	30.572	15.436	1.00	38.24	8
N	MET	A	2	6.834	32.751	14.889	1.00	39.98	7
CA	MET	A	2	7.789	32.553	13.806	1.00	41.79	6
CB	MET	A	2	7.939	33.779	12.915	1.00	42,46	6
C	MET	Α	2	7.913	35.144	13.565	1.00	46.63	6
SD	MET	A	2	8,464	36.456	12.453	1.00	50.85	1
CE	MET	Α	2	6,904	37.197	11.990	1.00	51.20	6
С	MET	Α	2	9,150	32.063	14.283	1.00	42.80	6
0	MET	A	2	9.819	31.352	13.521	1.00	42.73	8
N	THR	Α	2	9.576	32,410	15,491	1.00	43.60	7
CA	THR	Ā	2	10.871	31.967	15.991	1.00	44.83	6
СВ	THR	Â	2	11.855	33,144	16.144	1.00	43.66	6
Q.	THR	Ä	2	11.143	34.316	16.565	1.00	45.26	8
C	THR	Â	2	12.558	33.422	14.824	1.00	41.25	6
č	THR	Â	$\tilde{2}$	10.775	31.228	17.318	1.00	45.67	6
ŏ	THR	Â	2	11.515	30.267	17.539	1.00	46.17	8
للكا	4111	\mathbf{a}	4	*****	_UU.401	17.007 1	1.00	90.11	٥

N	SER	A	1 2	9.879	31.662	18.196	1.00	46.47	7 7
CA	SER	A	12	9.714	31.026	19.495	1.00	47.43	6
CE	SER	\perp A	12	9.270	32.058	20.538	1.00	49.71	6
0	SER	JA	_	10.284	33.013	20.790	1.00	52.26	8
C	SER	\perp A	_	8.701	29.888		1.00	47.25	6
0	SER	↓ A	_	7.660	29.962		1.00	47.41	. 8
N	PRO	_	_	8.982	28.840	20.221	1.00	46.81	17
C	PRO	_		10.212	28.661	21.033	1.00		6
CA				8.101	27.693	20.357	1.00	46.66	6
CB		_		9.087	26.562	20,623	11.00	46.56	6
Ç	PRO	ļ٨	_	10,210	27.194	21.365	1.00		16
Č	PRO	14		7.137	27.868	21.518	1.00		16
0	PRO	₽,		7.342	28.716	22.390	1.00		8
N	PRO	ļ٨		6.072	27.078	21.539	1.00		17
<u>C</u>	PRO	ĮĄ.		5.770	26.011	20.560	1.00		
CA	PRO	14	2	5.129	27.090	22.643	1.00		_
CB	_	ļ٨	12	3.973	26,227	22.173	1.00	47.06	16
E_	PRO	╀	12	4.400	25.537	20.935	1.00	47.05	16
Č	PRO	╀	12	5.789	26.528	23.889	1.00	47.82	6
10	PRO	IA.	12	6.397	25.453	23.831	1.00	47.54	8
N CA	GLU	IA.	2	5,619	27.172	25.038	1.00	48.53	17
CB	GLU	ΗÀ	12	6.188	26.696	26.299	1.00	49.69	6
C	GLU	A	12	5.816 6.199	27,643	27.441	1.00	55.27	6
Č.	GLU	A	2	6.819	29.094	27,188	1.00	61.22	16
ŏ	GLU	1A	2		29.771	28.392	1.00	64.76	6
ŏ	GLU	A	2	6.115 8.016	30.546	29.075	1,00	66.47	8
Č	GLU	A	2	5.772	29,536 25,262	28,665	1.00	67.96	8
ŏ	GLU	TÂ	2	6.514	24.447	26.599 27.146	1.00	48.73	6
N	ASN	Ā	2	4.570	24.890	26.211	1.00	48.71 47.71	7
CA	ASN	Ā	2	3.976	23.584	26.207	1.00	46.85	6
CB	ASN	Ā	12	2.691	23.692	25.349	1.00	52.48	6
C	ASN	A	12	1.620	22.697	25.717	1.00	56.08	6
0	ASN	IA	2	0.462	23.077	25,906	1.00	59.18	8
N	ASN	A	2	1.980	21.424	25.817	1.00	58.91	7
С	ASN	Α	2	4,824	22.498	25,550	1.00	45.13	6
0	ASN	IA.	2	4.848	21.351	25.996	1.00	45.12	8
N	GLY	IA.	2	5.368	22,805	24.372	1.00	42,77	7
CA	GLY	A	2	6.118	21.853	23.566	1.00	39.23	6
C	GLY	I.A.	2	5.180	21.002	22.712	1.00	36.81	6
<u>o</u> _	GLY	A	2	5.537	19.931	22,223	1.00	35.93	8
N	ALA	A	2	3.965	21,483	22.501	1.00	35.24	7
CA	ALA	ļA.	2	2.909	20.820	21.771	1.00	34.29	6
CB	ALA	A	2	1.708	21.768	21.662	1.00	35.14	6
č	ALA	ļĄ.	2	3.247	20.299	20.385	1.00	33.82	6
O N	ALA	A	2	2,782	19.215	20.012	1.00	34.26	8
N CA	GLY	A		3.941	21.079	19.564	1.00	32.88	7
CA C	GLY	A	2	4.288 5.373	20.642	18.215	1.00	31,65	6
0	GLY	A	2	5.369	19.573 18.638	18.254 17,452	1,00	31.06	6
N	ALA	A	2	6.303	19.714		1.00	30.38	8
CA	ALA	A	2	7.395	18.760	19.193 19.358	1.00	30.57 30.90	7
CB	ALA	A	2	8.396	19.291	20.373	1.00	30.84	6
c	ALA	A	2	6.855	17.397	19,775	1.00	31.12	6
ŏ	ALA	A	2	7.261	16.360	19.251	1.00	31.20	8
Ň	ALA	A	2	5.874	17.393	20.672	1.00	31.97	7
CA	ALA	A	2	5.196	16.175	21.094	1.00	32.35	6
CB	ALA	A	2	4.149	16.497	22.151	1,00	31.67	6
č	ALA	A	2	4.525	15.497	19.904	1.00	33.17	6
ŏ	ALA	A	2	4.686	14.299	19.674	1.00	33.02	8
N.	LEU	A	2	3.786	16.282	19.123	1.00	33.96	71
CA	LEU	A	2	3.090	15.788	17.944	1.00	34.35	6
CB	LEU	A	2	2.396	16.953	17.234	1.00	38,10	6
	LEU	Α	2	0.910	16.799	16.906		41.16	6

C	LET	j [AΙ	2	0.415	18.01	5	16.133	1.0	0 40.1	1 [5
C	LEU	J.	A	2	0.639	15.52		16.125				5
C	LEU	j]	A	2	4.007	15.06	6	16.966				_
0	LEU	J L	ΑĪ	2	3.695	13.96	8	16.499				
N	ALA		A	2	5.152	15.66	7	16.648			_	
CA	A ALA	1	A	2	6.119	15.06	8	15.736				_
CI	3 ALA	1	A L	2_	7.212	16.07	0	15.395	1.0			_
C	ALA	1	لـد	2	6.713	13.78	3	16.305	1.0		_	
0	ALA	4	4	2_	6,930	12.82	6	15.555				
N	MET			2_	6.969	13.75	ı	17.614	1.0			
CA	ME	CL/	1	2_	7.455	12.51	6	18.239	1.0	0 32.54	1 6	;
CE	ME7	<u>[[/</u>	1	2	7.999	12.77	1	19.636	1.0			-
C	MET	_	_	2_	9.285	13.590	0	19.637	1.00	30.75	<u> 6</u>	-
SE			_	2_	10.047	13.718	3	21,262	1.00	31.85	īΙι	Ξ
CE		_			9.278	15.202	깈	21.899	1.00	24.03	6	
C	MET	_			6.317	11.502		18.214	1.00	32.99	6	_
0	MET	_			6.464	10.387	긱	17.711	1.00	33.07	8	
N	ALA	4			5.123	11.934	Ц	18.613	1.00	33.83	7	
CA		-14			3.931			18.540	1.00	34.86	6	
CE		-14			2.696	11.897		18.938	1.00	36.22	16	_
č	ALA	I.A			3.739	10.514	Ц	17.145	1.00	35.40	6	_
0	ALA	4	_	_	3.541	9.302	4	17.030	1.00		8	
N CA	ASN	4			3.817	11.328		16.094	1.00			4
CA CB		A			3.628	10.851		14,733	1.00			4
C	ASN	I A	12		3.547	12.010		13,730	1.00		6	4
ŏ	ASN		_		2.252	12.789		13.851	1.00		6	4
N	ASN	TA	1 2		1.213 2.304	12.236	_	14.216	1.00	_	18	4
c	ASN		2	7	4.695	9.867	+	13.551	1.00		17	┥
Ó	ASN	ΙÄ	12	7	4.368	8.877	+	14.279 13.619	1.00		8	1
N	ALA	IA	2	┪	5.960	10.112	+	14.603	1.00		7	┪
CA	ALA	Ā	2	7	7.040	9.208	Ť	14.218	1.00	33.42	6	1
CB	ALA	A	2	1	8.390	9.816	Ť	14.556	1.00	32.45	6	1
C	ALA	A	12	T	6.871	7.856	T	14.905	1.00	33.89	6	1
0	ALA	A	12	I	7.067	6.797	1	14.309	1.00	33,23	8	1
N	LEU	A	2	1	6.505	7.889	T	16.183	1.00	34.57	7	1
CA	LEU	IA.	2	1	6.198	6.693	Ι	16.953	1.00	35.73	6	1
CB	LEU	Δ	12	4	5.749	7.072	L	18.366	1,00	36.10	6]
<u>C</u>	LEU	ļΔ	12		6.828	7.524	L	19,350	1.00	36.96	6]
<u>c</u>	LEU	A	2		6.202	7.916	Ľ	20.681	1.00	36.30	6]
<u>c</u>	LEU	A	2	_	7.876	6,440	L	19.560	1.00	38.05	6	1
<u>c</u>	LEU	ļĄ.	12	_	5.109	5.871		16.271	1,00	36.49	6	1
0	LEU	ļĄ	12		5.281	4.682		16.001	1.00	36.03	8	1
N_	ARG	A	2		3.990	6.518		15,949	1.00	37.50	7	l
CA CB	ARG	A	2		2.879	5.857	,	15,266	1.00	38.38	6	ł
C	ARG	A	2		1.704	6.821		15.124	1.00	43.58	6	ł
č	ARG	A	2		0.688 -0.490	6.482		4.048	1.00	49.95	6	ł
Z	ARG	A	2		0.190	7.442	_	4.066	1.00	55.15	6	ı
CZ	ARG	A	2		0.190	9.791		3,408	1.00	60,73	7	ł
N	ARG	Â	2		2.094	9.791		3.453 4.131	1.00	63.18	7	
N	ARG	Â	2		0.582	10.893		2.814	1.00	64.89	7	
c	ARG	A	2		3.324	5.309		3.917	1.00	65.39 38.17	6	
ō	ARG	Ā	2	Τ-	3.049	4.160		3.573	1.00	38.25	8	
N	ASP	Ā	2		1.130	6.070		3.186	1.00	37.94	7	
CA	ASP	A	2		.700	5.669		1.916	1.00	38.16	6	
СВ	ASP	A	2	7	5.501	6.838		1.323	1.00	36,55	6	
c	ASP	A	2	,	.773	6.631		.846	1.00	34.77	6	
0	ASP	A	2	_	.910	6.897		411	1.00	32.57	8	
0	ASP	A	2		.847	6.193		.132	1.00	37.98	8	
C	ASP	A	2		.590	4.436		1.994	1.00	39,31	6	
	ASP	A	2		.689	3.699		1.009	1.00	39.50	8	
N	ALA	A	2	6	.259	4.207		3.118	1.00	40.45	7	
CA	ALA	A	2	7	.114	3.043		3.301	1.00	41.61	6	
		-		-			_					

C	3 ALA	_	<u>. Ta</u>	0.224	10.400	1			_
C	ALA		A 2 A 2		3.400	14.135			
ŏ	ALA	_			1.908	13.964			
N					0.731	13.796		_	
	GLY	_	1 2	5.304	2,271	14.719			_
냕		_	_		1,297	15.387			_
냕	GLY	_	_	5.114	0.739	16.638			_
읁	GLY			5.107	-0.466		1.00		
N	ILE	-14		5.771	1.613	17.390	_		
CA		-14		6.425	1.245	18.635	1.00		
ČĒ	_	4	_	7.958	1.199	18.545	1.00	42,75	Ц
lc.	ILE	4	_	8,444	-0.071	17,859	1.00	41.52	Ц
LC.	ILE	14	_	8.506	2.431	17.820	1.00	42.54	
اح ا	ILE	44		9.940	2.759	18.178	1.00	43.11	
C	TILE	14	12	6,023	2.261	19,704	1.00	43.86	
0	ILE	IA	12	5.637	3.378	19.357	1.00	43.43	Т
N	GLU	A	12	6.097	1.867	20,968	1.00		_
CA	GLU	A	2	5.758	2.805	22,040	1.00	46.66	_
CB	GLU	A	2	5.132	2.074	23.223	1.00	53.41	1
С	GLU		2	3.772	1.466	22.905	1.00		1
C	GLU		_	2,955	1.176	24.149	1.00	64.17	
ŏ	GLU	Ä	2	2.576	0.003	24.354			+
ŏ	GLU	LΑ	2				1.00	66.12	+
c	GLU	7		2,690	2.121	24.922	1.00	66.54	+
Ö		₽	12	7.005	3.582	22,436	1.00	46,19	+
N.	GLU	╀	12	8.121	3.206	22,071	1.00	45.77	+
	ALA	₽Ą	2	6.845	4.639	23.220	1.00	46.33	Ľ
CA	ALA	₽₽	12	7.948	5.479	23.657	1.00	46.88	4
CB	ALA	ĮΑ	12	7.386	6.701	24.387	1.00	45,93	L
<u>c</u>	ALA	ļΑ	12	8.978	4.794	24.538	1.00	47.23	
0	ALA	ĻΔ	12	10.126	5,249	24.609	1.00	47.89	L
N_	SER	A	2	8.656	3.686	25.190	1.00	47.44	ľ
CA	SER	A	12	9.558	2.956	26.061	1.00	47.10	I
CB	SER	LΔ	2	8.742	2.180	27.106	1.00	48.58	Ī
0	SER	LA	2	8.071	1.092	26.492	1.00	49.60	Ī
C	SER	Α	2	10.487	1.993	25.337	1.00	46.51	Te
0	SER	A	2	11.244	1.248	25.965	1.00	47.13	Ì
N	GLN	A	2	10.457	1.987	24.013	1.00	45.51	ľ
CA	GLN	A	12	11.310	1.141	23,192	1.00	43.84	le
CB	GLN	Ā	2	10.514	0.498	22.058	1.00	45.59	6
С	GLN	A	2	9.657	-0.671	22,514	1.00	48.22	6
C	GLN	Α	2	8.571	-1.048	21.531	1.00	50.32	6
0	GLN	A	2	8.830	-1.682	20.506	1.00		_
N	GLN	Ā	2	7.336	-0.664			51.41	8
Ċ	GLN	Â	2	12.472		21.837	1.00	51.31	17
ŏ	GLN	A	2		1.979	22.658	1.00	42.12	6
N	ILE	A	2	13.417	1.474	22.059	1.00	41.78	8
CA				12.397	3.283	22.904	1.00	40.51	_7
	ILE	À	2	13.436	4,222	22.523	1.00	39.86	6
ÇB	ILE	A	2	12.873	5.622	22.207	1.00	40.19	6
ဌ니	ILE	A	2	13.992	6.609	21,897	1.00	39.47	6
ဌ니	ILE	A.	2	11.861	5,567	21.063	1.00	40.86	6
<u>c</u>	ILE	A	2	12.417	5.221	19.702	1.00	40.33	6
Ç↓	ILE	A	2	14.466	4.359	23.644	1.00	39.12	6
<u> </u>	ILE	A.	2	14.144	4.781	24.753	1.00	39.07	8
N	GLY	A	2	15.712	4.023	23.335		38.94	7
CA	GLY	A	2	16.789	4.127	24.309	_	38.40	6
C	GLY	Α	2	17.317	5.557	24.385		38.27	6
<u> </u>	GLY	A	2	17.438	6.113	25.478		39.05	8
N	TYR	A		17.608	6.152	23.231		37.49	7
CA	TYR	Ä	2	18.231	7.471				
	TYR	Â	2			23,206		36.85	<u>6</u>
	TYR			19.714	7.308	22.877		36.62	6
		Ă۱		20.474	8,536	22.443		36.28	6
	TYR	^		21.036	8.603	21,173		36.11	6
	TXR	A	2	21.745	9,715		1.00	35.70	6
	TYR	A	_	20.650	9.621	23.290	1.00	36.10	6
E	TYR	Αl	2	21.362	10,736	22.887			6

CZ	TYR	TΑ	2	21,905	10.777	21.621	1.00	35.72	6
0	TYR	A	2	22,617	11.885		1.00		8
Č	TYR	A	2	17.576	8.447	22.237	1.00		6
ŏ	TYR	TA	2	17,242	8.145	21,096			_
		_					1.00		8
N.	VAL	ļΑ	3	17.430	9.680	22.716	1.00		17
CA	VAL	₽₽	3	16.887	10.788		1.00		6
CB	VAL	ĮΑ	3	15.694	11.455	22.668	1,00	37.52	6
C	VAL	LA	3	15.134	12.606	21.839	1.00	38.08	6
C	VAL	IA	3	14.592	10.451	22.970	1.00	39.63	6
C	VAL	A	3	17.958	11.856	21.725	1.00		6
Ŏ	VAL	Ā	3	18,409	12.496	22.675	1.00		8
N		_	_				1		_
_	ASN	₽¥.	3	18.389	12.018	20.480	1.00	34.00	17
CA	ASN	ļΑ	13.	19.251	13,152	20.122	1.00	32.94	6
CB	ASN	A	3	19.999	12.918	18.828	1.00	33.36	6
C	ASN	A	3	21.046	13.957	18.499	1.00	35.05	16
0	ASN	A	3	22.239	13.747	18.730	1.00	36.83	18
N	ASN	A	3	20.620	15.086	17.946	1.00	35,26	7
C	ASN	A	3	18.307	14.355	20,032	1.00	32.21	6
0	ASN	A	3	17.477	14.448	19.130	1.00	31.53	8
N	ALA	Ä	3	18.392	15.219	21,029	1.00	31.54	7
_		7							_
CA	ALA	ļĄ	13	17.516	16.366	21,148	1.00	31.65	6
CB	ALA	Į.A.	13	17.630	16.910	22.576	1.00	27.55	16.
C	ALA	1A	13	17.819	17.498	20,183	1.00	31.57	6
0	ALA	A	3	18.915	17.585	19.637	1.00	31.93	8
LN_	HIS	A	3	16.837	18.396	20,037	1.00	31.47	7
CA	HIS	A	3	17.066	19.582	19,205	1.00	31.50	6
CB	HIS	A	3	15.774	20,293	18.825	1.00	30.71	6
С	HIS	A	3	16.012	21.492	17.954	1.00	30.47	6
C	HIS	A	3	16.639	21,604	16.758	1.00	30.33	6
N	HIS	Â	3	15.623	22.765	18.306	1.00	31.27	7
		_							_
CE	HIS	A	3	15.990	23.610	17,361	1.00	31.78	6
Ň	HIS	A	3	16.610	22.932	16.411	1.00	32.01	7
C	HIS	A	3	18.023	20.467	20.012	1.00	31.54	6
0_	HIS	A	3	19.076	20.889	19.544	1.00	31.65	8
N	GLY	LA	3	17.751	20.594	21.304	1.00	31.96	7
CA	GLY	A	3	18.569	21,240	22.298	1.00	32.18	6
C	GLY	A	3	19.554	22.282	21.817	1.00	32.16	6
0	GLY	A	3	20.765	22,041	21.787	1.00	32.53	8
N	THR	A	3	19.075	23,478	21.485	1.00	32.26	7
CA	THR	A	3	19.942	24.526	20.965	1.00	31.80	6
СВ	THR	Ā	3	19.195	25,393	19.926	1.00	30.30	6
o		A.	3	17.971	25.868	20.489	1.00	33.79	8
C	THR	_							
	THR	A	3	18,916	24.563	18.686	1.00	29.22	6
C_	THR	A	3	20.567	25.441	21.994	1.00	31.72	6
0	THR	A	3	21,445	26.225	21.621	1.00	31.84	8
N_	SER	A	3	20.178	25.357	23.253	1.00	31.92	7
CA	SER	A	3	20.743	26.174	24.316	1.00	32,75	6
CB	SER	A	3	22.254	26.359	24,195	1.00	33.63	6
0	SER	A	3	22.778	26.944	25,377	1.00	35.52	8
C	SER	A	3	20.038	27.524	24.425	1.00	32.80	6
ō	SER	A	3	20.605	28.532	24.845	1.00	31.92	8
N	THR	A	3	18.762	27.525	24.054	1.00	33.61	7
CA		A	3						_
	THR			17.931	28,718	24,172	1.00	34.81	<u></u>
CB	THR	A	3	17.073	28,985	22,928	1.00	32.66	6
<u>o</u>	THR	Α.	3	16.429	27.765	22.530	1.00	30.74	8
<u> </u>	THR	A	3	17.926	29.510	21.786	1.00	31.00	6
C	THR	A	3	17.010	28.512	25.372	1.00	35.97	6
0	THR	A	3	16.467	27.421	25,556	1.00	36.42	8
N	PRO	4	3	16.873	29.534	26.198	1.00	37.08	7
	PRO	A	3	17.498	30.869	26.036	1.00	37.65	6
CI									_
C _A			3 1	15 000	70 404 1				
CA	PRO	A.	3	15.980	29,484	27.343	1.00	37.87	6
CA CB	PRO PRO	Α	3	15.850	30.942	27,764	1.00	37.78	6
CA	PRO								

Q	PRO	ΙA	3	14.346	27,732	27.366	1.00	39.90	8	П
N	ALA	A	3	13.863	29,551	26.149	1.00		7	
CA		IA	3	12.543	29,093		1.00		6	Τ
CE		A	3	11.890	30.148		1.00		6	J
C	ALA	TA	3	12.517	27.741	25.053	1.00		6	٦
o	ALA	TA	3	11,657	26.908		1.00	.,	8	٦
N	GLY	A	3	13.404	27.502	24.096	1.00		7	٦
CA	GLY	A	3	13.418	26.268	23.333	1.00	_	6	٦
С	GLY	Α	3	13.765	25,021	24.125	1.00		6	٦
0	GLY	ĪΑ	3	13.141	23.971	23.945	1.00		T8	7
N	ASP	A	3	14,746	25.106	25.018	1.00		7	٦
CA	ASP	A	3	15.180	23,961	25.811	1.00	39.15	6	
CB	ASP	A	3	16,465	24.288	26.575	1.00	40.44	6]
C	ASP	A	3	17.674	24.427	25.673	1.00	41.01	6]
0_	ASP	A	3	18,777	24.687	26.198	1.00	41.45	8	⅃
0	ASP	10	13	17.544	24,277	24.441	1.00	42.11	8	
C_	ASP	IA.	3	14.107	23.470	26.771	1.00	39.31	6	
0	ASP	ļΑ	13	13.965	22.262	26.962	1.00	38,78	8	┙
N	LYS	ĮA,	13	13.337	24,384	27.349	1.00	40,33	17.	
CA	LYS	ļΑ	13	12.248	24.038	28,249	1.00	41.37	16	4
CB		ĮA,	3	11.679	25.294	28,915	1.00	44,75	16	7
<u>c</u>	LYS	IA	3	12.447	25.786	30.127	1.00	48.79	16	4
C	LYS	A	3	11.955	27.158	30.569	1.00	52.90	6	1
CE	LYS	ļĄ	3	10.808	27.035	31.558	1.00	55.82	6	4
NZ		ļĄ	13	10.052	28.310	31.699	1.00	58.57	17	4
č	LYS	ļĄ	3	11.112	23.325	27.521	1.00	41.30	6	4
0	LYS	A	3	10.542	22.359	28.027	1.00	41.76	8	4
N.	ALA	IA.	13	10.750	23.834	26.346	1.00	41.14	17	4
CA CB	ALA	A	3	9.661	23.270	25.558	1.00	40.10	6	┨
C	ALA	A	3	9,430	24.095	24.301	1.00	40.50	6	┨
ŏ	ALA	A	3	9,110	21.816 20.941	25,199 25,449		39.44	6	┨
N	GLU	A	3	11.117	21.553	24.642	1.00	39.45 38.86	7	ł
CA	GLU	A	3	11.517	20.199	24.292	1.00	38,43	6	┨
CB	GLU	Ā	3	12.908	20.174	23.650	1.00	36.45	6	t
C	GLU	Â	3	13.346	18.771	23.264	1.00	35.26	6	1
<u>c</u>	GLU	A	3	14.539	18.724	22,340	1.00	35.78	6	1
ō	GLU	A	3	15.309	19.704	22.269	1.00	34.04	8	1
0	GLU	A	3	14.707	17.674	21.682	1,00	37.46	8	1
c	GLU	Α	3	11.497	19.289	25.515	1.00	38.96	6	1
0_	GLU	Α	3	10.886	18.220	25.473	1.00	39.10	8	1
N	ALA	A	3	12.102	19.724	26.616	1.00	39,64	7	1
CA	ALA	Α	3	12.042	18.983	27.874	1.00	41.27	6	1
CB	ALA	Α	3	12.591	19.831	29.012	1.00	40.83	6	1
C_	ALA	A	3	10,607	18.555	28.169	1.00	42.20	6]
0_	ALA	A	3	10.283	17.373	28.253	1.00	41.83	8	l
N_	GLN	A	3	9.708	19.528	28.245	1.00	43.58	7]
<u>CA</u>	GLN	A	3	8.289	19.330	28.467	1.00	45.33	6	
CB	GLN	A	3	7.590	20,697	28.418	1.00	46.77	6	1
<u>c_</u>	GLN	A.	3	6.134	20.675	28.840	1.00	50.69	6	1
<u>c</u>	GLN	A	3	5.951	20.383	30,316	1.00	51.91	6	ı
0_	GLN	A	3	6.100_	21.270	31.156	1.00	52,38	8	ı
<u>N</u>	GLN	A.	3	5.631	19.132	30.630	1.00	51.50	7	1
<u>c</u>	GLN	A.	3	7.630	18.385	27.473	1.00	46.33	6	l
<u>o_</u>	GLN	Ă.	3	6.745	17.607	27.844	1.00	46.33	8	ı
N_	ALA	Α	3	8,046	18.411	26.211	1.00	46.88	7	
CA	ALA	A	3	7.518	17,538	25.178	1.00	47.24	6	ĺ
CB	ALA	A.	3	7.923	18.062	23.803	1.00	50.24	6	
Č.	ALA	Α	3	7.967	16.090	25,329	1.00	47.27	6	
0	ALA	A	3	7.269	15.181	24.874	1.00	47.41	8	1
N_	VAL	A	3	9.123	15.858	25.938	1.00	47.41	7	
CA	VAL	Ā	3	9.631	14.508	26.168	1.00	47.69	6	!
CB.	VAL	A	3	11.153	14.496	26.378	1.00	46.76	ᆁ	
<u> </u>	VAL	A	3	11,660	13,139	26.846	1.00	45.38	<u>6</u>	

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С	VAL	. A	1 3	11.856	14.898	25.087	1.00	46.70	6
C	VAL	. A	3	8.919	13.883	27.364	1.00	47.82	6
0	VAL	A	3	8.604	12.693	27.365	1.00		8
N	LYS	ΙΑ	3	8.585	14.714	28.349	1.00	48.07	7
CA	LYS	A	3	7.799	14.263		1.00		
CE		A	3	7.654	15.386		1.00		
C	LYS	T A		8.880	15.539		1.00	_	6
C	LYS	A	3	8.716	16.660		1.00		6
CE		Ā	_	9.831	16.618		1.00		6
NZ	_	Ā		9.808	17.806		1.00		7
C	LYS	Ä		6.439	13.762	29.024	1.00	_	6
10	LYS	TA	3	6.044					-
_	THR				12.632	29.302	1.00		18
N CA	THR	A	3	5.771	14.551	28.192	1.00		17
		_	_	4.469	14.237	27.636	1.00	49.03	6
CB		14	3	3.972	15.427	26.782	1.00		6
0	THR	ĮĄ.	3	4.097	16.635	27.549	1.00	47.21	8
Č	THR	ļĄ	3	2.522	15.250	26.372	1.00	46.85	6
C	THR	ĮĄ.	3	4.411	12.968	26.804	1.00	49.57	16
10	THR	A	3	3.380	12.285	26.804	1.00	50.05	18
N	ILE	₽ ₽	13	5.462	12.637	26.068	1.00	50.18	17
CA		14	3	5.470	11.469	25.198	1.00	50.51	6
CB	ILE	Į₽	13	6.342	11.746	23.954	1.00	50.53	6
C	ILE	A	13	6.438	10.528	23.051	1.00	50.20	6
C	ILE	IA.	3	5.800	12.953	23.183	1.00	51.45	6
C	ILE	IA.	3	4.379	12,825	22.680	1.00	51.49	6
C	ILE	A	3	5,936	10.194	25.880	1.00	50.83	6
0	ILE	I A	3	5.339	9.134	25.668	1.00	50.86	8
N	PHE	IA	13	7.014	10.262	26.651	1.00	51.33	7
CA	PHE	A	3	7,560	9.065	27,288	1.00	52.19	6
CB	PHE	A	3	9.074	9.195	27.452	1.00	52.50	6
C	PHE	A	3	9.821	9.238	26.147	1.00	53.33	6
C	PHE	Α	3	9.830	10.383	25.370	1.00	53.36	6
С	PHE	A	3	10.525	8.132	25.702	1.00	53.23	6
CE	PHE	A	3	10.516	10,426	24.173	1.00	53.94	6
CE	PHE	A	3	11.217	8.168	24.507	1.00	54.53	6
CZ	PHE	A	3	11.213	9.316	23.740	1.00	54.18	6
C	PHE	Α	3	6.871	8.762	28.610	1,00	52.24	6
0	PHE	A	3	6.695	7.597	28.973	1.00	51.99	8
N	GLY	A	3	6.444	9.798	29.320	1.00	52.78	7
CA	GLY	A	3	5.693	9.654	30.551	1.00	53.77	6
C	GLY	A	3	6,446	8,986	31.687	1.00	54.34	6
0	GLY	A	3	7.227	9.630	32.388	1.00	54.23	8
N	GLU	A	3	6.205	7.690	31.888	1.00	54.80	7
CA	GLU	A	3	6.838	6.949	32.975	1.00	55.28	6
CB	GLU	A	3	5.960	5.789	33.443	1.00	58.98	6
C	GLU	Â	3	4.949	6.181	34.517	1.00	62.90	6
č	GLU	Ā	3	3.537	6.208	33.959	1.00	65.17	6
0_	GLU	A	3	3,089	7,295	33.536	1.00	67.07	8
ŏ	GLU	Â	3	2.888	5.142	33.934	1.00	65.23	8
č	GLU	A	3	8.228	6.464	32,591	1.00	54.50	6
ŏ	GLU	A	3	9,043	6.116		-		8
N	ALA	A	3	8.521	6.463	33,445	1.00	54.82	7
CA	ALA	_	3	9,823		31.294	1.00	53.52	_
		A	_		6.062	30.782	1.00	52.63	6
CB	ALA	A	3	9.689	5.365	29.440	1.00	50.42	6
<u>~</u>	ALA	Ą.	3	10.734	7.284	30.676	1.00	52.26	6
Ġ.	ALA	A	3	11.926	7.171	30,394	1.00	51.59	8
N	ALA	Ą	3	10.210	8.471	30.953	1.00	52.74	7
CA	ALA	A	3	10.943	9.724	30.925	1.00	54.05	6
CB	ALA	A	3	10.102	10.838	31.539	1.00	53.68	6
C.	ALA	A	3	12.291	9.648	31.629	1.00	55.13	6
Q.	ALA	A	3	13.320	9.986	31.034	1.00	55.60	8
N	SER	A	3	12.327	9.160	32.867	1.00	55.54	7
CA	SER	Α	3	13.573	9.002	33.606	1.00	55.99	6
CB	SER	Α	3	13.306	8.859	35.105	1.00	57.01	6

_	Lone	٠.							
<u> </u>	SER	40		12.171	8,052	35.359	1.00	_	_
Ë	SER	₽Ą.	_	14.399	7.821	33,107	1.00		_
0	SER	ĮA		15.603	7.733	33.355	1.00		
N	ARG	$\overline{}$	_	13.781	6.902	32.386	1.00	56.22	7
CA	ARG	_	_	14.416	5.726	31.814	1.00	56.26	6
CB	_	-↓∆		13.344	4.651	31.647	1.00	61.19	6
LC_	ARG	.↓Δ	_	13.701	3.372	30.920	1.00	66,66	6
<u>_</u>	ARG	4	13	12,447	2.526	30.737	1.00	71.39	6
N	ARG	Į A	13	12.695	1.230	30,126	1.00		7
CZ	ARG	ļΑ	3	11.756	0.312	29.913	1.00	77.16	6
N	ARG	LA	3	10.497	0.540	30.262	1,00	78,29	7
N	ARG	A	3	12.073	-0.845	29.347	1.00		7
C	ARG	LA	3	15.110	6.023	30,491	1,00		6
0	ARG	A	3	16.028	5.296	30.105	1.00		8
N	VAL	A	3	14.705	7.077	29.789	1.00	53.57	7
CA	VAL	A	3	15.284	7.424	28.496	1.00	51.50	6
СВ	VAL	A	3	14.174	7.860	27.515	1.00	51,84	6
С	VAL	Λ	3	13.523	9.165	27.947	1.00	51.31	6
Ċ	VAL	A	3	14.710	7.972	26.095	1.00	51.08	6
c	VAL	Ā	3	16.377	8,479	28.545	1.00	49.96	6
ō	VAL	Ā	3	16.278	9.497	29.227	1.00	50.25	8
Ň	LEU	A	3	17.436	8,250	27.770	1.00	48.09	7
CA	LEU	A	3	18.567	9.163				
CB	LEU	A	3	19.875	8.398	27.688	1.00	45.94	16
C.	LEU	A	3	20.080	7.094		1.00	43.63	6
C	LEU	A	3	21.455	6.510	28,254	1.00	43,75	6
č	LEU	A	3	19.912	7.299	27.955	1.00	41,34	6
c_	LEU	_	3			29.751	1.00	42.51	6
ö	LEU	A	3	18.397	10.184	26,566	1.00	44.92	6
N	VAL	A	3	18.184	9.849	25.402	1.00	44.57	8
CA	VAL	•	3	18.446	11,460	26,934	1.00	43.75	17
CB	VAL	ļĄ.	3	18.292	12.568	26,006	1.00	42.60	6
C	VAL	A		17.056	13.434	26,333	1.00	42.79	6
c	VAL	À	3	16.914	14.564	25.318	1.00	43.51	6
c	VAL	Á	3	15.771	12.628	26.391	1.00	41.10	6
ö	VAL	A	_	19.511	13.487	26.057	1.00	41.36	6
		A	3	19,660	14.195	27.055	1.00	41.26	8
<u>N</u>	SER	Ą	3	20.277	13.602	24.978	1.00	40.10	7
ÇĄ.	SER	A	3	21.417	14.515	24,995	1,00	38.23	6
CB O	SER	A	3	22.726	13.733	25.111	1.00	38.48	6
<u>~</u>	SER	A.	3	23.125	13.209	23.860	1.00	37.54	8
ဌ	SER	A	3	21.462	15.432	23.779	1.00	37.10	6
0	SER	A	3	20.980	15.110	22.696	1.00	36,20	8
N.	SER	A	3	22,080	16.597	23.971	1.00	36.01	7
CA	SER	A	3	22,287	17,541	22.882	1.00	34.31	6
CB.	SER	A	3_	21.798	18,939	23.261	1.00	34,82	6
<u> </u>	SER	A	3	22,083	19.885	22,245	1.00	31.05	8
C	SER	Α	3	23.762	17,580	22.501	1.00	33.61	6
0	SER	A	3	24.597	18,118	23.233	1.00	33,03	8
N	THR	A	3	24.072	17.129	21.284	1,00	32,62	7
CA	THR	Α	3	25.437	17,172	20.775	1.00	32.08	6
CB	THR	A	3	25.726	16.101	19.712	1.00	33.01	6
0	THR	Α	3	24.747	16.143	18.667	1.00	34.86	8
<u>C </u>	THR	A	3	25.711	14.716	20.347	1.00	32.74	6
<u>c 1</u>	THR	A	3	25,793	18.553	20,240	1.00	31.64	6
0.1	THR	A	3	26.924	18.826	19.840	1.00	31.14	8
7	LYS_	Α	3	24.856	19.491	20.300	1.00	31.31	7
CA	LYS	Α	3	25.010	20.881	19.939	1.00	31.62	6
CB	LYS	Ā	3	23.654	21.553	19.710	1.00	29.29	6
	LYS	A	3	22.892	21.070	18.485	1.00	26,40	6
-	LYS	Â	3	21.836	22.083	18.071	1.00	26.12	
		Â	3	21.019	21.625				6
اج					41.040	16,880	1.00	19.32	6
	LYS	_					1.00		
VZ.	LYS	A	3	20.357	20.315	17.079	1.00	19.99	7
VZ.		_		20.357 25.777			1.00		7 6 8

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Й	SER		_						_
C	_		_						_
Š	-		_						
ြင့	SER								
ငြ	SER		13	28.342			1.00		_
0 N	SER	_	_	29.145	22,294		1.00	_	
_	MET		_	28.707	20.593		1.00		_
C.			13	30.066	20.471		1.00	_	_
CI		_	13	30.467	18.989		1.00		
SI	MET	_	13	30.627	18.359		1.00		
CE			3	30.676 28.930	16.559		1.00		
C	MET	_	3	30.209	16.174		1.00	1	
ō	MET		3	31.181	21.045 21.695		1.00		
N	THR	_	3	29.206	20.776		1.00		
CA			3	29.221	21.052	17.764	1.00		_
CE		TA	3	28.529	19.849	17.084	1.00	26.82 25.06	6
0	THR	TÀ	3	29.276	19.446	15.930	1.00	30.10	8
Č	THR	Ā	3	27.090	20.114	16.701	1.00	18.67	6
C	THR	TÂ	3	28.614	22,391	17.399	1.00	26.37	6
0	THR	A	3	29.054	23.058	16.457	1.00	26.07	8
N	GLY	Ā	3	27.618	22.819	18.170	1.00	25.19	7
CA	GLY	IA	3	26.920	24.078	17.903	1.00	23.14	6
С	GLY	A	3	25.703	23.739	17.033	1.00	22.02	6
0	GLY	Α	3	25.454	22,562	16.775	1.00	20.89	8
N	HIS	A	3	24.951	24.734	16.597	1.00	21.15	7
CA	HIS	A	3	23.784	24,482	15.756	1.00	21.64	6
CB	HIS	A	3	22.651	25.433	16.132	1.00	22,64	6
C	HIS	A	3	21.345	25.179	15.448	1.00	22,18	6
C	HIS	A	3	20.906	24.174	14.655	1.00	22.76	6
N	HIS	A	3	20.290	26.062	15,559	1.00	21.82	7
CE	HIS	ļA.	3	19.267	25.608	14.868	1.00	22.80	6
N	HIS	A	3	19.610	24.462	14.307	1.00	22.54	7
Š.	HIS	ĮA.	3	24,154	24.629	14.285	1.00	21.46	6
0	HIS	A	3	24.436	25,735	13.825	1.00	20.69	18
N	LEU	A.	3	24.046	23.547	13.518	1.00	21.57	7
CA	LEU	A	3	24.414	23.543	12.110	1,00	21.84	6
CB C	LEU	A	3	25.023	22.217	11.684	1.00	23.76	6
C	LEU	A	3	26.176	21.514	12.363	1.00	26.89	6
č	LEU	A	3	27.099 26.984	20.895	11.311	1.00	23.94	6
č	LEU	Â	3	23.230	22,392 23.833	13,303	1.00	26.29	6
ō	LEU	Â	3	23.245	23.478	11.187 10.007	1.00	21.61 20.96	8
N	LEU	Â	3	22.196	24.471	11.711	1.00	21.90	7
CA	LEU	Â	3	21,000	24.829	10.971	1.00	20.97	6
CB	LEU	A	3	21.256	26.146	10.227	1.00	25.02	6
C	LEU	Α	3	21.228	27,387	11.132	1.00	29.21	6
C	LEU	A	3	21.823	28.592	10.425	1.00	31.78	6
C	LEU	A	3	19,805	27.671	11.588	1.00	31.03	6
C	LEU	A	3	20,517	23.723	10.053	1.00	20.08	6
0	LEU	A	3	20.109	22.668	10,547	1.00	19.70	8
N	GLY	A	3	20.685	23.857	8.743	1.00	18.85	7
ÇA	GLY	A	3	20.189	22.912	7.767	1.00	17.73	6
C	GLY	A	3	20.916	21.583	7,708	1.00	17.85	6
0	GLY	A	3	20.420	20.628	7.105	1.00	18.50	8
N	ALA	Α	3	22.098	21.491	8.305	1.00	16.95	7
CA	ALA	Α	3	22.859	20.258	8.366	1.00	16.12	6
CB	ALA	Α	3	24.336	20.533	8.116	1.00	14.89	6
C	ALA	A	3	22.706	19.597	9.734	1.00	16.19	6
0	ALA	A	3	23.205	18.491	9.940	1.00	16.13	8
N	ALA	A	3	22.053	20,282	10.670	1.00	16.51	7
CA	ALA	A	3	21.914	19.783	12.032		17.53	6
CB	ALA	A	3	21.234	20.798	12.943		14.26	6
С	<u>ALA I</u>	A	3	21,200	18,444	12.097	1.00	17.49	6

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18	ALA GLY		_	_			_		
N C/			_						_
C	GLY								_
6	_	_	_						
	GLY	_	_						
N	ALA	14	_	75277			1.00		
CA		-JA	$\overline{}$				1.00		_
CE		10		22.286			1.00	20.29	45
C	ALA	_ΙΑ	_	22.879	14.65		1.00	23.42	<u> </u>
0	ALA	40	_	22.998	13.436		1.00	22.82	<u> </u>
N	VAL	_ _0		23,692	15.528	10.413	1.00	23.70	7
CA		ŲA	3	24.804	15,087	11.243	1.00	24.94	- 6
CB		ŲA	13	25.732	16,231	11.691	1.00	24.96	6
C	VAL	.↓Δ	3	26.375	16.906	10.489	1.00	24.13	6
C	VAL	JA	3	25.004	17.259	12,543	1.00		6
С	VAL	A	3	24.313	14.344		1.00		6
0	VAL	IA	3	24.898	13.344		1.00		18
N	GLU	IA	3	23.217	14.813		1.00	_	17
CA	GLU	ĪΑ	13	22,620	14.235		1.00		6
СВ	1	A	3	21.656	15.256		1.00		6
С	GLU	A	3	22.395	16.436		1.00		6
С	GLU	A	3	21.493	17.567	15,920	1.00		_
0	GLU	A	3	20.285	17.356		1.00	25.13	8
0	GLU	ĪĀ	3	22.008	18.695		1.00	23.51	8
C	GLU	IA	3	21.897	12.920	14.010	_		
ō	GLU	A	3	21.691	12.158	14.960	1.00	28.69	16
N	SER	A	3	21.511	12.638			29.70	18
CA	SER	Ā	3	20.966	11.335	12,770	1.00	28,70	17
CB	SER	A	3	20.299	11.349	12,408	1.00	28.87	16
0	SER	Â	3	19.060		11.037	1.00	29,67	16
č	SER	A	3		12.029	11.055	1.00	30.09	8
ŏ	SER	Â	_	22,102	10.311	12.417	1.00	28.45	6
N	ILE	Â	3	21.917	9.172	12.834	1.00	29.17	8
CA	ILE	Â	3	23,279	10.741	11.973	1.00	28.01	17
CB	ILE	A	3	24.466	9.891	11.972	1.00	28.28	6
	Ţ	_		25,635	10.555	11.223	1.00	27.00	6
<u>c</u>	ILE	A	3	26.906	9.724	11.315	1.00	24.00	6
C C	ILE	A	13	25.237	10.769	9.761	1.00	25.93	6
	ILE	A	3	26.150	11.648	8.942	1.00	25.92	6
č	ILE	A	3	24.857	9.551	13.407	1.00	28.54	6.
<u>0</u>	ILE	A	3	24,990	8.374	13.750	1.00	29.30	8
N .	TYR	A	3	24.886	10.547	14.288	1.00	27.81	7
CA	TYR	A	3	25.154	10.328	15.705	1.00	27.86	6
CB.	TYR	A	3	25.121	11.625	16.505	1.00	25.65	6
<u>c</u>	TYR	A.	3	25.927	12,780	15.961	1.00	23.07	6
<u>c</u>	TYR	A	3_	25.562	14.087	16.265	1.00	21.60	6
CE	TYR	A	3	26.286	15.162	15.788	1.00	21.08	6
<u>c</u>	TYR	A	3	27.047	12.591	15.162	1.00	22.29	6
CE	TYR	Α	3	27,769	13,657	14.670	1.00	22.16	6
CZ	TYR	A	3	27.385	14.942	14,990	1.00	21.49	6
۹	TYR	A	3	28.109	16.006	14.503	1.00	22.00	8
<u>c </u>	TYR	A	3	24.163	9.331	16.298	1.00	28.50	6
0	TYR	A	3	24.562	8.399	16,999	1.00	29.32	8
И	SER	Α	3	22.883	9.476	15.971	1.00	28.28	7
CA	SER	A	3	21.853	8.550	16.415	1.00	28.66	6
СВ	SER	A	3	20.471	9.074	16.017	1.00	26.37	6
0	SER	A	3	20.239	10.351	16.586		24.94	8
2	SER	Ä	3	22.059	7.145	15.858			
5	SER	Â	3					29.49	6
	ILE	A	3	21.716	6.164	16.523	_	29.71	8
_			3	22.581 22.871	7.026	14.644		29.91	7
V	IT F				5.731	14.041	1.00	30.85 L	6
Y CA	ILE	A 	_						
V CA CB	ILE	A	3	23.042	5.854	12.518	1.00	29.44	6
V CA CB	ILE I	A A	3	23.042 23.695	5.854 4.632	12.518 11.898	1.00	29.44 24.70	6
CA CB	ILE	A	3	23.042	5.854	12.518	1.00	29.44	

					_				
С	ILE	TΑ	. 3	24.097	5.109	14.695	1.00	32.09	6
0	ILE	T A	. 3	24.031	3.988	15.209	1.00		_
N	LEU	_	3			14.785	1.00		_
			_						
CA			13		5.390	15.399	1.00		
CE			13	27.530	6.448	15.295	1.00		_
C	LEU		3	27.995	6.776	13,872	1.00	28.35	6
C	LEU	LA.	3	28.988	7.929	13.881	1.00	25.33	6
C	LEU	A	13	28.590	5,552	13,191	1.00	25.41	6
C	LEU	TΑ	3	26,230	4.952	16.840	1.00		
0	LEU		3	26,799	3.947	17.275	1.00		
N	ALA	A	3	25.381	5.648	17.590	1.00		_
CA		TÂ	3				_		
		_	_	25.047	5,296	18.959	1.00	_	
CB		ļΑ	3	24.015	6.269	19.512	1.00		
C	ALA	A	3	24.517	3.866	19.051	1.00		6
0	ALA	A	3	24.828	3.138	19,996	1.00	37.29	8
N	LEU	A	3	23,718	3.445	18.076	1.00	38.32	7
CA	LEU	A	3	23.214	2.088	17.983	1.00	39.35	6
CB		A	3	22.126	1.997	16.905	1.00		6
C	LEU	Ā	3	20.818	2.741	17.188	1.00		6
Ċ.	LEU	Â	3	19.876	2.632	15,997	1.00		16
C			3						_
	LEU	ļĄ.	_	20.150	2.219	18.451	1.00		6
C_	LEU	A	3	24,309	1.071	17.680	1.00		16
0	LEU	A	3	24.264	-0.056	18.179	1.00	40,72	8
N	ARG	ĮA,	13	25.284	1.444	16.859	1.00	39.72	7
CA	ARG	A	3	26.374	0.555	16.489	1.00	39.68	6
CB	ARG	LA	3	27.145	1.143	15,299	1.00	38.11	6
C	ARG	A	3	28.395	0.374	14.912	1.00	36.96	6
C	ARG	IA	<u> </u>	29.233	1.118	13.887	1.00	35,78	6
N	ARG	A	3	30,059	2.153	14.494	1.00	36.32	7
CZ	ARG	Â	3	31.013	2.835	13.874	1.00	35.89	6
N	ARG	Â	3	31.282	2.612	12.595			7
		$\overline{}$					1.00	35.44	_
N-	ARG	ļĀ.	13	31.700	3.756	14.537	1.00	37.40	17
C_	ARG	ļ٨	3	27.347	0.292	17.632	1,00	40.11	6
0	ARG	ĮĄ.	3	27.841	-0,823	17.798	1.00	40.63	18
N	ASP	LA.	3	27.683	1.330	18.381	1.00	39.98	7
CA	ASP	A	3	28.670	1.282	19.440	1.00	40.06	6
CB	ASP	Α	3	29.519	2.566	19.359	1.00	39.64	6
C	ASP	A.	3	30.451	2,630	18.176	1.00	40.62	6
0	ASP	A	3	30.287	1.857	17.211	1.00	42.45	8
0	ASP	A	3	31.377	3.472	18.203	1.00	42.37	8
C	ASP	A	3	28.094	1.233	20.843	1.00	40.44	6
o	ASP	A	3	28.839	1.293	21.827	1.00	40.41	8
N	GLN	Â	3						_
CA	GLN	A	3	26.775	1.261	20.977	1.00	40.68	7
		_		26.120	1.289	22,279	1.00	41.07	6
CB	GLN	A	3	26.060	-0.110	22.889	1.00	41.34	6
C	GLN	A	3	25.441	-1.157	21.980	1.00	43.02	6
C_	GLN	A.	3	23.932	-1.101	21.920	1.00	43.88	6
0_	GLN	A.	3	23.254	-0.919	22.930	1.00	43.71	8
N	GLN	Α	3	23.379	-1.258	20.720	1.00	45.09	7
С	GLN	Α	3	26.773	2.285	23.235	1.00	40.94	6
0	GLN	Α	3	26.900	2.032	24.433	1.00	41.47	8
N	ALA	Α	3	26.982	3.509	22.772	1.00	40.54	7
CA	ALA	Ã	3	27.526	4.607	23.550	1.00	40.25	6
CB	ALA	Â	3						
			3	29.003	4.811	23.267	1.00	39.67	6
Č-	ALA	A	_	26.733	5.869	23.207	1.00	40.54	6
0	ALA	A	3	26,398	6.083	22.041	1.00	40.55	8
N	VAL	A	3	26.400	6.655	24.220	1.00	40.29	7
CA	VAL	Α	3	25.621	7.873	24.018	1.00	40.33	6
CB	VAL	Α	3	24.326	7.849	24.847	1.00	41.69	6
C	VAL	A	3	23.693	9.228	24.973	1.00	44.15	6
С	VAL	A	3	23.316	6.886	24,230	1.00	42.65	6
C	VAL	Ā	3	26.461	9.099	24.356	1.00	39.55	6
ŏ	VAL	Â	3	26.954	9.232				
N	PRO		3	26.593		25.472	1.00	39.88	8
17	LVA	Α	3	40.093	10.004	23.392	1.00	38.67	7

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C	PRO	IA.	. 3	25.982	9.912	22.044	1.00	38.43	Ц
CA	PRO	IA.	3	27.341	11.232	23.561	1.00	37.39	1
CB	PRO	_LA	3	27,373	11.879	22.188	1.00	37.81	
C	PRO	A	13	26.699	10.959	21.245	1.00	38,10	${ m I}_{ m I}$
C	PRO	lΑ	3	26.686	12.149	24.582	1.00	36.31	T
0	PRO	A	3	25.463	12.195	24.703	1.00	36,61	I
N	PRO	A	3	27.502	12.897	25.314	1,00		ľ
C	PRO	A	3	28.985	12.873	25.229	1.00		
CA	PRO	IA	3	27.030	13.776	26.355	1.00		T
CB	PRO	IA	3	28,269	13.948	27.243	1.00		I
С	PRO	A	3	29.419	13.827	26.307	1.00		16
С	PRO	A	3	26.562	15.158	25.945	1.00		1
0	PRO	A	3	26.823	15.673	24.864	1.00		Ī
N	THR	Ā	3	25.873	15.790	26.892	1.00		1
CA	THR	A	3	25.505	17.193	26,785	1.00	33.34	1
СВ		Ā	3	24.125	17.525	27.365	1.00		16
0	THR	A	3	23.125	16.690	26.775	1.00	34.77	E
C	THR	Ā	3	23,787	18.987	27.116	1.00	30.68	16
С	THR	Â	3	26.572	17.928	27.607	1.00	1	6
ō	THR	Ä	3	26.393	17.987	28.824	1.00		_
Ņ	ILE	A	3	27,709	18.280	27.019	1.00	33.67	1 7
CA	ILE	A	3	28.753	18,913	27.829	1.00		_
CB		A	3	30.091	19.062	27.090		34.08	6
C	ILE	Â	3	30.542	17.710	26.551	1.00	31.83 31.40	_
č	ILE	A	3	30.011	20.091	25.963	1.00	31.66	6
č	ILE	Â	3	31.348	20.624	25.497	1.00	27.91	16
Č	ILE	Ã	3	28.267	20.259	28.343	1.00	34.65	6
ō	ILE	A	3	27.273	20.813	27.877	1.00	34.80	8
N.	ASN	Α	3	28.953	20.806	29.338	1.00	35.52	7
CA	ASN	Ā	3	28.678	22.085	29,954	1.00	36.17	6
CB	ASN	A	3	28.564	23.192	28.895	1.00	37.53	6
C	ASN	A	3	29.853	23.478	28.157	1,00	39.33	6
0	ASN	A	3	30.942	23,435	28.729	1.00	41.49	8
N	ASN	A	3	29.725	23.759	26.865	1.00	38.26	7
C	ASN	Α	3	27.438	22,141	30.834	1.00	37.42	6
0	ASN	Α	3	27.059	23.240	31.267	1.00	36.65	8
N	LEU	Α	3	26.805	21.021	31,152	1.00	39.20	7
CA	LEU	A	3	25.583	21,032	31.951	1.00	41.87	6
CB	LEU	A	3	24.686	19.861	31.559	1.00	39.97	6
C	LEU	Α	3	23.296	19.758	32.183	1.00	39.36	6
<u>C</u>	LEU	Δ.	13	22.575	21.095	32.216	1.00	39.37	6
C	LEU	A	3	22.457	18.727	31.438	1.00	37.75	6
<u>C</u>	LEU	Α	3	25.891	21,037	33,443	1.00	44.02	6
ᇬ	LEU	Α	3	25.739	20.048	34,153	1.00	<u>43.56</u>	8
N.	ASP	A	3	26.281	22.205	33.940	1.00	46.66	7
CA	ASP	A	3	26.700	22,407	35.311	1.00	49.49	6
CB	ASP	Ą.	3	27.590	23,656	35.391	1.00	50.43	6
덪	ASP	A	3	28.868	23,531	34.591	1.00	50.97	6
읬	ASP	Ą.	3	29.356	24.568	34.092	1.00	52.47	8
<u>~</u>	ASP	Ť	3	29.393	22.406	34.463	1.00	51.53	8
덪	ASP	Ā	3	25.533	22,583	36.271	1.00	51.39	6
Q N	ASP ASN	Ă.	3	25.652	22.273	37,457	1.00	52.19	8
N CA	ASN	A	3	24.415	23.097	35.773	1.00	52.98	7
CB	ASN	A	3	23.240		36.597	1.00	54.38	6
C	ASN	Ā	$\overline{}$	23.354 23.817	24.718	37.246	1.00	55.67	6
ŏ	ASN		3	23.364	24.718 23.912	38.683 39.498	1.00	56.56	6
N	ASN	A	3				1.00	58.64	8
c l	ASN	Ą	_	21.045		39.001	_	54.49	7
		A	3	21.945	23.281	35,796	1.00	55.65	<u>6</u>
<u>0</u>	ASN	۸	3	21.533	24,272	35,192	1.00	55.61	8
Ž	PRO	۸	3	21.269	22,139	35.827	1.00	56.99	7
	PRO	A	3	21.700	20.916	36.544	1.00	56,97	6
CA CB	PRO	Ą	3	20.000 19.505		35.149	1.00	58.36	6
ונוט	INU	A	3]	Ta'OOO	20.603	35.633	1.00	<u>57.72 </u>	6

C	_	_						_									
O PRO A 3 19.009 23.592 36.597 1.00 60.43 8 N ASP A 3 18.120 23.370 34.644 1.00 62.72 7 CA ASP A 3 16.7091 24.389 34.766 1.00 65.42 6 CB ASP A 3 16.358 24.680 33.461 1.00 65.96 6 C ASP A 3 16.358 24.680 33.461 1.00 65.96 6 C ASP A 3 16.724 27.025 33.650 1.00 66.02 8 O ASP A 3 16.724 27.025 33.650 1.00 66.02 8 C ASP A 3 16.724 27.025 33.650 1.00 66.02 8 C ASP A 3 16.724 27.025 33.650 1.00 66.02 8 C ASP A 3 16.345 22.683 36.086 1.00 67.55 6 C ASP A 3 16.46 23.894 36.866 1.00 67.55 6 C ASP A 3 16.46 23.894 36.866 1.00 67.55 6 C ASP A 3 16.46 23.894 36.866 1.00 67.55 6 C ASP A 3 16.46 23.894 36.866 1.00 67.55 6 C GLU A 3 16.575 26.305 37.311 1.00 80.01 6 C GLU A 3 11.875 26.305 37.311 1.00 80.01 6 C GLU A 3 11.769 27.059 38.015 1.00 82.31 6 C GLU A 3 11.769 27.059 38.015 1.00 82.31 6 C GLU A 3 11.854 22.436 35.856 1.00 83.82 8 C GLU A 3 12.875 26.305 37.310 1.00 83.41 8 C GLU A 3 13.522 23.369 37.350 1.00 75.55 6 C GLU A 3 13.522 23.369 37.350 1.00 72.78 6 C GLU A 3 13.522 23.369 37.350 1.00 73.37 7 CA GLY A 3 12.845 22.436 35.831 1.00 73.38 6 C GLY A 3 12.845 22.436 35.831 1.00 73.398 6 C GLY A 3 11.854 22.436 35.831 1.00 73.398 6 C GLY A 3 11.857 23.430 36.204 1.00 73.37 7 CA GLY A 3 11.857 23.430 36.204 1.00 73.37 7 CA GLY A 3 11.857 23.430 36.204 1.00 74.22 6 C GLY A 3 11.857 23.430 36.204 1.00 73.37 7 CA GLY A 3 11.857 23.430 36.204 1.00 73.36 6 C GLY A 3 11.857 21.888 33.703 1.00 74.61 6 C GLY A 3 11.856 20.859 35.182 1.00 74.04 7 CA CYS A 3 14.479 19.887 34.372 1.00 74.04 7 CA CYS A 3 14.589 18.836 36.482 1.00 72.96 8 N ASP A 3 14.240 17.458 34.736 1.00 74.61 6 C GYS A 3 14.589 18.836 36.482 1.00 73.06 6 C GLU A 3 12.859 18.836 36.482 1.00 75.82 1 C GLU A 3 13.566 20.859 35.182 1.00 74.04 7 CA CYS A 3 14.657 18.656 35.264 1.00 77.07 6 CB ASP A 3 14.679 18.836 36.482 1.00 75.82 1 C GLU A 3 13.4589 18.836 36.482 1.00 75.82 1 C GLU A 3 13.4589 18.836 36.482 1.00 75.86 6 C ASP A 3 14.679 19.887 34.373 1.00 74.61 6 C LEU A 3 1.579 16.688 30.234 1.00 65.66 8 N ASP A 3 14.691 19.39 10.00 42.50 6 C LEU A 3 18.571 1	_								19.87	8	36.120	\Box	1.0	0	57.	10	T6
N ASP A 3 18.120 23.370 34.644 1.00 652.72 7 CA ASP A 3 17.091 24.389 34.766 1.00 65.42 6 CB ASP A 3 15.930 26.125 33.361 1.00 66.02 8 O ASP A 3 15.930 26.125 33.361 1.00 66.02 8 O ASP A 3 16.742 27.026 33.650 1.00 66.02 8 O ASP A 3 16.742 27.026 33.650 1.00 66.02 8 O ASP A 3 16.166 23.894 35.856 1.00 67.55 6 O ASP A 3 16.062 22.683 36.086 1.00 67.55 6 O ASP A 3 16.062 22.683 36.086 1.00 67.55 6 O ASP A 3 16.062 22.683 36.086 1.00 67.55 6 O ASP A 3 14.574 24.425 37.650 1.00 77.55 6 C GLU A 3 11.875 26.305 37.311 1.00 80.01 6 C GLU A 3 11.875 26.305 37.311 1.00 80.01 6 C GLU A 3 11.8769 27.059 38.015 1.00 83.41 8 O GLU A 3 12.875 26.305 37.311 1.00 80.01 6 C GLU A 3 13.522 23.369 37.350 1.00 72.78 6 O GLU A 3 13.822 22.501 38.198 1.00 33.82 8 O GLU A 3 12.877 23.430 36.204 1.00 73.13 5 N GLY A 3 12.857 23.430 36.204 1.00 73.33 6 C GLU A 3 11.854 22.436 35.831 1.00 73.37 7 CA GLY A 3 11.854 22.436 35.831 1.00 73.37 8 C GLY A 3 11.854 22.469 34.805 1.00 74.22 6 C GLY A 3 11.854 22.469 34.805 1.00 74.23 8 C GLY A 3 11.854 22.466 35.831 1.00 73.35 6 C GLY A 3 11.854 22.465 35.831 1.00 73.35 6 C GLY A 3 11.854 22.465 35.831 1.00 73.35 6 C GLY A 3 11.854 22.465 35.831 1.00 73.35 6 C GLY A 3 11.854 22.465 35.831 1.00 73.35 6 C GLY A 3 11.854 22.465 35.831 1.00 73.35 6 C GLY A 3 11.854 22.465 35.831 1.00 73.35 6 C GLY A 3 11.854 22.465 35.831 1.00 73.35 6 C GLY A 3 11.854 22.465 35.831 1.00 73.35 6 C GLY A 3 11.854 22.465 35.831 1.00 73.35 6 C GLY A 3 11.854 22.465 35.831 1.00 73.35 6 C GLY A 3 11.854 22.365 35.831 1.00 73.35 6 C GLY A 3 11.854 22.465 34.805 1.00 74.04 7 CA CYS A 3 14.655 13.93 31.905 1.00 74.73 8 C GLY A 3 11.856 20.859 35.182 1.00 75.35 6 C GLY A 3 11.856 20.859 35.182 1.00 75.35 6 C GLY A 3 11.856 20.859 35.182 1.00 75.35 6 C GLY A 3 11.856 20.859 35.480 1.00 75.35 6 C GLY A 3 14.559 18.83 30.00 1.00 75.45 6 C LEU A 3 13.876 1.509 30.00 10.00 75.85 6 C C LEU A 3 14.976 15.507 32.442 1.00 55.81 6 C LEU A 3 14.976 15.509 39.300 10.00 72.45 6 C LEU A 3 14.859 18.850 10.00 47.56 6 C LEU A 3 18.926 13.893	_						18.996	5_	23,04	9	35.491	Ц	1.0	0	60.	26	6
CA ASP A 3 17.091 24.389 34.766 1.00 65.42 6 CB ASP A 3 16.358 24.680 33.461 1.00 65.96 6 C ASP A 3 16.358 24.680 33.461 1.00 65.96 6 C ASP A 3 16.724 27.026 33.650 1.00 66.02 8 C ASP A 3 16.724 27.026 33.650 1.00 66.02 8 C ASP A 3 16.146 23.894 35.856 1.00 67.55 6 C ASP A 3 16.146 23.894 35.856 1.00 67.55 6 C ASP A 3 16.146 23.894 35.856 1.00 67.55 6 C ASP A 3 16.462 22.683 36.086 1.00 67.61 8 N GLU A 3 15.435 24.785 36.534 1.00 69.63 7 CA GLU A 3 14.571 24.425 37.650 1.00 71.91 6 C GLU A 3 11.679 27.059 38.016 1.00 67.55 6 C GLU A 3 11.679 27.059 38.016 1.00 62.31 6 C GLU A 3 11.69 27.059 38.016 1.00 62.31 6 C GLU A 3 11.69 27.059 38.016 1.00 62.31 6 C GLU A 3 13.522 23.369 37.310 1.00 83.41 8 O GLU A 3 12.875 26.305 37.311 1.00 83.41 8 C GLU A 3 13.522 23.369 37.350 1.00 72.78 6 C GLU A 3 13.522 23.369 37.350 1.00 73.37 7 CA GLY A 3 12.875 26.305 37.310 1.00 72.78 6 C GLU A 3 13.522 23.369 37.350 1.00 73.38 6 C GLY A 3 11.854 22.436 35.831 1.00 73.38 6 C GLY A 3 11.854 22.436 35.831 1.00 73.38 6 C GLY A 3 11.854 22.436 35.831 1.00 73.38 6 C GLY A 3 11.854 22.436 35.831 1.00 73.38 6 C GLY A 3 11.857 23.430 36.204 1.00 73.37 7 CA CYS A 3 14.279 19.887 34.372 1.00 74.04 7 CA CYS A 3 14.279 19.887 34.372 1.00 74.04 7 CA CYS A 3 14.279 19.887 34.373 1.00 74.04 7 CA CYS A 3 14.279 19.887 34.373 1.00 74.04 7 CA CYS A 3 14.279 19.887 34.373 1.00 74.04 7 CA CYS A 3 14.289 18.89 3.308 1.00 77.74 7 CA CYS A 3 14.289 18.89 3.308 1.00 77.74 7 CA CYS A 3 14.279 19.887 34.372 1.00 55.80 6 C CYS A 3 14.279 19.887 34.373 1.00 75.82 1 C CYS A 3 14.279 19.887 34.373 1.00 75.82 1 C CLEU A 3 12.572 16.349 37.563 1.00 75.82 1 C CYS A 3 14.279 19.887 36.00 1.00 65.39 6 C ASP A 3 14.293 1.00 17.34 8 C ASP A 3 14.293 1.093 3.360 1.00 75.82 1 C LEU A 3 13.376 15.503 29.863 1.00 55.80 6 C LEU A 3 14.976 15.137 33.600 1.00 65.53 6 C LEU A 3 14.646 15.137 33.600 1.00 65.53 6 C LEU A 3 14.696 13.755 32.832 1.00 55.80 6 C LEU A 3 14.697 16.683 30.088 1.00 47.70 6 C ASP A 3 19.266 13.795 32.412 1.00 55.81 6 C LEU A 3 19.266 13.795 32.412 1	_			_	_	_					36.597		1.0	0			8
CB					_				23,37	Q_	34.544	Ц	1.0	이	62.	72	7
C ASP A 3 15.930 26.125 33.310 1.00 66.23 8 O ASP A 3 16.724 27.026 33.650 1.00 66.29 8 C ASP A 3 16.724 27.026 33.650 1.00 66.29 8 C ASP A 3 16.146 23.894 35.856 1.00 67.55 6 O ASP A 3 16.062 22.683 36.086 1.00 67.61 8 N GLU A 3 14.574 24.425 37.650 1.00 75.55 6 C GLU A 3 12.875 26.305 37.311 1.00 83.41 8 C GLU A 3 12.672 23.305 37.716 1.00 83.41 8 C GLU A 3 13.252 23.30 30.240 1.00					_	_			24.38	9_	34.766	ᆜ	1.0	0	65.4	12	6
O ASP A 3 16:724 27:026 33.650 1.00 66:02 8 O ASP A 3 16:146 23:894 35:856 1.00 67:55 6 O ASP A 3 16:062 22:683 36:086 1.00 67:55 6 O ASP A 3 16:062 22:683 36:086 1.00 67:61 8 N GLU A 3 14:574 24:425 37:650 1.00 79:19 6 CB GLU A 3 12:875 26:305 37:311 1.00 80:01 6 CBLU A 3 11:565 26:784 37:716 1.00 83:41 8 O GLU A 3 11:562 27:393 38:556 100 80:31 6 C GLU A 3 13:522 23:369 37:350 1.00 72:7					_				24.68	0	33.461	Ц	1.0	٥	65.9	96	6
O ASP A 3 14.791 26.358 32.850 1.00 66.29 8 C ASP A 3 16.146 23.894 35.866 1.00 67.55 6 O ASP A 3 16.062 22.683 36.086 1.00 67.55 6 N GLU A 3 15.435 24.785 36.534 1.00 69.63 7 CA GLU A 3 14.574 24.425 37.650 1.00 71.91 6 CB GLU A 3 14.574 24.425 37.7650 1.00 70.555 6 CB GLU A 3 11.869 27.059 38.015 1.00 83.41 8 O GLU A 3 11.569 27.930 38.856 1.00 83.41 8 O GLU A 3 13.522 23.430 36.204 1.00	_				_						33.310	Ц	1.0	ᅥ	66.	13	6
C ASP A 3 16.146 23.894 35.856 1.00 67.55 6 O ASP A 3 16.062 22.683 36.086 1.00 67.61 8 N GLU A 3 15.435 24.785 36.534 1.00 69.63 7 CA GLU A 3 14.674 24.425 37.650 1.00 75.55 6 CBUU A 3 13.891 25.670 38.236 1.00 75.55 6 C GLU A 3 11.769 27.059 38.015 1.00 83.41 8 O GLU A 3 12.972 27.930 38.856 1.00 83.42 8 C GLU A 3 12.8257 23.430 36.204 1.00 73.37 7 CA GLV A 3 11.854 22.436 35.831 1.00 7	_	_									33.650	Ц	1.00	0	66.0)2	8
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0	PHI			_			1.00	40.83	8
N	VAI						1.00	40.72	7
C			-+-		12.44	3 29.776	1.00	40.16	6
CI	B VAI	- LA	<u>\ 3</u>	23.891	11.81	5 28.403	1.00	38.09	6
C	VAI					28.427	1.00	36.99	6
C	VAL			22.727	10.93	27.974	1.00	38.10	6
C	VAI	_	13	24.659	13.56	30.056	1.00	40.38	6
0	VAL	<u>. A</u>	3	25.385	14.03	29.186	1.00	40.38	8
N	PRC	A	<u> 3</u>	24.700	14.009	31.313	1,00	40.78	
C	PRC	<u>L</u> A	13	23.800	13.524		1.00	40.85	_
C/	PRO	LA	13	25.309	15.254	31.696	1.00	40.90	
CE	PRO		3	25.114	15.342		1.00	40.96	
C	PRO	ĺΑ	3	24.428	14.100		1,00	40.79	6
C	PRO	A	3	26.734	15.593		1.00	41.19	6
0	PRO	LA	3	26.904	16.768	30.971	1.00	42.24	8
N	HIS	A	3	27.780	14.807		1,00	40.96	7
CA	HIS	A	3	29.125	15.321	31.308	1.00	40.86	6
CB	HIS	A	3	29.855	15.671	32.615	1.00	40.66	6
C	HIS	A	3	29,399	16.966		1.00	40.73	6
Ç	HIS	A	3	29,717	18.252		1.00	41.56	6
N	HIS	ĪΑ	3	28.427	17.004	34.194	1.00	41.70	7
CE	HIS	A	3	28.196	18.257	34,535	1.00	40.82	6
N	HIS	A	3	28.964	19.035	33,793	1.00	42,13	7
C	HIS	LA	3	29,998	14.402	30.476	1.00	40.86	6
0	HIS	Α	3	30.871	14.875	29,743	1.00	39,80	8
N	GLU	A	3	29.799	13.098	30,610	1.00	41.82	7
CA	GLU		3	30,603	12.134	29.866	1.00	42.65	6
CB	GLU	A	3	31,560	11.395	30.800	1.00	48.00	6
C	GLU	IA	3	33.025	11.769	30,651	1.00	54.38	6
C	GLU	A	13	33.949	10.601	30.938	1.00	58.70	6
0	GLU	A	3	34,307	10.398	32.118	1.00	62.14	8
0	GLU	A	3	34.320	9.878	29.990	1.00	60,16	8
C	GLU	JA.	13	29,690	11.143	29.152	1.00	41.91	6
0	GLU	JA.	3	28,533	10.976	29.536	1.00	41.07	8
N	ALA	A	13	30.220	10.524	28.105	1.00	41.81	7
CA	ALA	IA.	3	29.453	9.543	27.348	1,00	41.61	6
CB	ALA	IA.	3	30.301	8.960	26.230	1.00	41,62	6
C	ALA	A	3	28.964	8.436	28.276	1.00	41.80	6
0	ALA	ĮA.	3	29.691	8.012	29.176	1.00	41.92	8
N	ARG	IA.	3	27,726	7.999	28.069	1.00	41.60	7
CA	ARG	IA.	3	27.181	6.905	28.866		40.84	6
CB	ARG	A	3	25,735	7.170	29.277	1.00	40.27	6
<u></u>	ARG	IA.	3	25.176	6,134	30.241	1.00	39.78	6
C_	ARG	A	3	25.303	6,599	31.683	1.00	38.06	6
N	ARG	A	3	24.282	7.589	32.015	1.00	38.84	7
CZ	ARG	Α	3	24.534	8.880	32.190	1.00	41.57	6
N	ARG	A	3	25.771	9.349	32.071		43.04	7
Ň	ARG	A	3	23.545	9.711	32,490	1.00	42.78	7
č	ARG	A	3	27.280	5.603	28.078		40.36	6
0	ARG	A	3	27.220	5,612	26.850		40,45	8
N O	GLN	A.	3	27.494	4.502	28.783		10.51	7
CA	GLN	A	3	27.539	3.181	28.159		39.98	6
<u>CB</u>	GLN	ĮĄ.	3	28,581	2.309	28.851		11.17	6
즞	GLN	A	3	28.564	0.840	28,470		12.05	6
흣	GLN	A	3	29,364	0.558	27,216		11.53	6
<u>e</u>	GLN	A	3	28.850	-0.009	26.251		14.79	8
Ň	GLN	A	3	30.629	0.959	27,223		0.43	7
Š	GLN	A	3	26.151	2.558	28.260		9.51	6
0	GLN	A	3	25.491	2.744	29,287		9.97	8
N.	VAL	Α	3	25.644	1.971	27.185	1.00 3	9.03	7
CA	VAL	A	3	24,332	1.327	27.199		8.60	6
CB	VAL	A	3	23,234	2.055	26,417	1.00 3	7.27	6
<u>c </u>	VAL	A	3	22,917	3.429	27.001			6
C	VAL	A	3	23.579	2,190	24.942	1.00 3	4.97	6

C VAL A 3 24,491 -0.100 26,668 1,00 38,94 6 O VAL A 3 25,540 -0.387 26,685 1,00 38,38 8 N SER A 3 23,561 -0.967 26,865 1,00 40,73 6 CB SER A 3 23,649 -3.222 27,720 1,00 40,55 6 C SER A 3 22,681 -2.919 25,456 1,00 41,24 8 C SER A 3 22,681 -2.919 25,456 1,00 42,12 6 C SER A 3 21,444 -3,476 24,447 1,00 42,12 6 C GLY A 3 21,429 -3,435 24,411 1,00 42,12 6 C GLY A 3 19,424 -0,299 22,822 1,00 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>										
Q	l C	VAL	L A	1 3	24.491	-0.100	26.668	1.00	38.94	6
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C		SER	↓ ∆	<u> 13</u>	23.649	-3.252	27.720	1.00	40.55	6
C	0	SER	\perp_A	3	23.861	4.601	27.327	1.00	42.48	18
O SER A 3 23,144 -3,476 24,447 1.00 41,74 8 N GLY A 3 21,377 -2,851 25,686 1.00 41,13 7 7 7 7 7 7 7 7 7	C	SER	A	3	22 681					
N			_							
CA			_							
C				_		-2.851	25.686	1,00	41.13	17
O GLY	C/	I GLY	LA	3	20.429	-3.435	24.741	1.00	42.12	6
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N MET A 3 20.167 -1.367 23.500 1.00 43.16 7 CA MET A 3 19.440 -0.299 22.822 1.00 43.71 6 CB MET A 3 20.230 1.004 22.944 1.00 43.69 6 SD MET A 3 20.366 3.767 22.774 1.00 43.09 6 SD MET A 3 20.366 3.767 22.774 1.00 43.09 6 C MET A 3 21.976 3.688 21.993 1.00 42.01 6 C MET A 3 21.976 3.688 21.993 1.00 44.30 6 C MET A 3 20.141 -0.930 20.627 1.00 44.01 8 N GLU A 3 17.587 -0.949 19.560 1.00 44.01 8 N GLU A 3 17.587 -0.949 19.560 1.00 45.44 7 CA GLU A 3 16.583 -2.106 19.526 1.00 57.87 6 C GLU A 3 16.263 -5.350 19.485 1.00 63.46 8 O GLU A 3 16.263 -5.350 19.485 1.00 63.46 8 O GLU A 3 17.025 0.239 18.789 1.00 61.67 8 C GLU A 3 17.075 0.239 18.789 1.00 64.635 6 O GLU A 3 17.177 0.304 17.565 1.00 46.35 6 C GLU A 3 17.177 0.304 17.565 1.00 46.35 6 C GLU A 3 15.785 2.334 18.820 1.00 44.72 6 C GLU A 3 13.192 1.313 17.051 1.00 45.47 7 6 C TYR A 3 13.494 1.272 18.401 1.00 47.77 6 C TYR A 3 13.494 1.272 18.401 1.00 47.77 6 C TYR A 3 12.420 0.886 18.535 1.00 49.56 6 C TYR A 3 12.420 0.886 18.535 1.00 49.56 6 C TYR A 3 12.420 0.886 18.535 1.00 49.56 6 C TYR A 3 12.420 0.886 18.535 1.00 49.56 6 C TYR A 3 12.420 0.886 18.535 1.00 49.56 6 C TYR A 3 12.420 0.886 18.535 1.00 49.56 6 C TYR A 3 12.420 0.886 18.535 1.00 49.56 6 C TYR A 3 12.420 0.886 18.535 1.00 49.56 6 C TYR A 3 12.420 0.886 18.535 1.00 49.56 6 C TYR A 3 15.578 8.107 16.45 1.00 38.96 6 G TYR A 3 15.578 8.107 16.45 1.00 38.96 6 G TYR A	6			3						_
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C	0	GLU	$\perp_{\mathbf{A}}$	13	14.991	-4.392	17.973	1.00	61.67	8
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C THR A 3 19.360 5.709 19.354 1.00 41.15 6 C THR A 3 16.008 6.965 17.995 1.00 38.98 6 O THR A 3 15.540 6.724 16.867 1.00 38.49 8 N LEU A 3 15.788 8.107 18.626 1.00 38.40 7 CA LEU A 3 14.951 9.179 18.101 1.00 37.48 6 CB LEU A 3 12.706 10.398 18.820 1.00 49.89 6 C LEU A 3 12.058 10.398 18.820 1.00 45.59 6 C LEU A 3 12.058 10.491 17.835 1.00 36.55 6 C LEU A 3 15.778 10.431 17.835 1.00		THR	A	3	18.373	6.345	18.388	1.00	40.58	6
C THR A 3 19.360 5.709 19.354 1.00 41.15 6 C THR A 3 16.008 6.965 17.995 1.00 38.98 6 O THR A 3 15.540 6.724 16.887 1.00 38.49 8 N LEU A 3 15.788 8.107 18.626 1.00 38.49 7 CA LEU A 3 14.951 9.179 18.101 1.00 37.48 6 CB LEU A 3 12.706 10.398 18.820 1.00 43.96 6 C LEU A 3 12.058 10.894 20.110 1.00 45.23 6 C LEU A 3 15.778 10.431 17.835 1.00 36.55 6 C LEU A 3 15.754 10.970 16.616 1.00	Q	THR	Α	3	18.696	5.961	17.044	1.00	38.16	8
C THR A 3 16.008 6.965 17.995 1.00 38.98 6 O THR A 3 15.540 6.724 16.887 1.00 38.49 8 N LEU A 3 15.788 8.107 18.626 1.00 38.40 7 CA LEU A 3 14.951 9.179 18.101 1.00 37.48 6 CB LEU A 3 12.706 10.398 18.820 1.00 49.96 6 C LEU A 3 12.706 10.398 18.820 1.00 45.59 6 C LEU A 3 12.058 10.998 20.110 1.00 45.23 6 C LEU A 3 15.778 10.431 17.835 1.00 45.23 6 C LEU A 3 15.778 10.431 17.835 1.00	l C	THR	A	3			19.354			
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C LEU A 3 12.706 10.398 18.820 1.00 43.96 6 C LEU A 3 11.655 9.721 17.955 1.00 45.59 6 C LEU A 3 12.058 10.894 20.110 1.00 45.23 6 C LEU A 3 15.778 10.431 17.835 1.00 36.55 6 O LEU A 3 16.477 10.898 18.745 1.00 36.35 8 N CYS A 3 15.754 10.970 16.616 1.00 35.33 7 CA CYS A 3 16.465 12.209 16.319 1.00 34.09 6 CB CYS A 3 17.441 12.103 15.146 1.00 30.99 6 CC X A 3 15.483 13.347 16.038 1.00	CB	LEU	Α	3	13.862	9.461	19.134	1.00	40.89	6
C LEU A 3 11.655 9.721 17.955 1.00 45.59 6 C LEU A 3 12.058 10.894 20.110 1.00 45.23 6 C LEU A 3 15.778 10.431 17.835 1.00 36.55 6 O LEU A 3 16.477 10.888 18.745 1.00 36.35 8 N CYS A 3 15.754 10.970 16.616 1.00 35.33 7 CA CYS A 3 16.465 12.209 16.319 1.00 34.09 6 CB CYS A 3 17.441 12.103 15.146 1.00 30.99 6 CC A 3 18.186 13.714 14.750 1.00 33.67 6 C CYS A 3 14.700 13.347 16.038 1.00 33.67<		LEU	Α							_
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CA CYS A 3 16.465 12.209 16.319 1.00 34.09 6 CB CYS A 3 17.441 12.103 15.146 1.00 30.99 6 SG CYS A 3 18.186 13.714 14.750 1.00 29.61 1 C CYS A 3 15.483 13.347 16.038 1.00 33.67 6 O CYS A 3 14.700 13.305 15.093 1.00 34.22 8 N ASN A 3 15.558 14.388 16.852 1.00 33.84 7	N	CYS.	A	3						
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N ASN A 3 15.558 14.388 16.852 1.00 33.84 7	0	CYS	A	3	14.700 T					_
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C						18.260	1.00	36.16	6
C	ASN			13.048		18.697	1.00	39.16	6
0	ASN			12.375		17.887	1.00		
И	ASN		_	12,774	14.966	19.997	1.00	39,24	7
C	ASN		1 3	15,191	16.827	16,233	1.00	32.97	6
0	ASN		1 3	16.246		16.617	1.00	32.75	8
N	SER		1 3	14.373	17.483	15,413	1.00	32.66	7
C/		1	1 3	14,676	18.793	14,851	1.00	31.74	_6
CE	SER	I A	13	15,200	18.682	13.422	1.00	31.39	6
0	SER	10	13	16.598	18,874	13.359	1.00	31.26	8
C	SER			13.416	19.656	14.860	1.00	31,57	6
0	SER	A	3	12.435	19.319	14.194	1.00	31.75	8
N	PHE		13	13.415	20,722	15.649	1.00	30.83	7
CA		_	13	12.270	21.619	15.761	1.00		6
CE			3	11.712	21.643	17.185	1.00	31.46	6
C	PHE	$\perp A$	13	11.529	20.317	17.862	1.00	32,87	6
C	PHE	IA.	13	12,125	20.065	19.087	1.00	33.75	6
C	PHE	LA	3	10.774	19.310	17.280	1.00	33.53	6
CE		Ų∆	13	11.976	18.843	19.714	1.00	33.89	6
CE		↓ A	13	10.633	18,082	17.894	1.00	35.78	6
CZ	PHE	-↓Α	13	11.227	17.850	19,119	1.00	33.73	6
Ē	PHE	J۵	3	12,688	23.029	15.347	1.00	31.43	6
0	PHE	Į.	3	13.279	23.753	16.150	1.00	31,64	8
N	GLY	IA.	3	12.398	23.442	14.116	1.00	31.34	7
CA	GLY	ĮĄ.	3	12.972	24.648	13.571	1.00	30.81	6
ļċ.	GLY	A	3	12.146	25.906	13.465	1.00	30.77	16
10	GLY	ĮĄ.	3	10.939	25.956	13.680	1.00	29.83	8
N	PHE	ļĄ	14	12.847	26.982	13.095	1.00	31.24	17
CA	PHE	ļΑ	14	12.239	28.297	12.897	1.00	31.72	6
CB	PHE	ļ٨	14	13.280	29.283	12,373	1.00	35.13	6
E.	PHE	A	4	14.430	29.453	13.330	1.00	37.25	6
읃	PHE	₽₽	4	15.692	28.998	13.002	1.00	39.09	6
CE	PHE	 ♠	4	14.245	30.067	14.558	1.00	38.34	6
CE	PHE	₽₽	4	16.752	29.147	13.876	1.00	38,52	6
CZ	PHE	A	4	15.299	30.220	15.436	1,00	38.09	6
C	PHE	A	4	16.555 11.042	29.759	15.095	1.00	37.29	6
ŏ	PHE	A	4	11.052	28.155 27.334	11.971	1.00	30,64	6
N	GLY	Â	4	9.976	28.894	11.054 12.261	1.00	30.82	8
CA	GLY	Ā	4	8.742	28.810	11.489	1.00	29.80 28.76	7
C	GLY	A	4	7.805	27.760	12.082	1.00	27.97	6
o	GLY	A	4	6.727	27.488	11.554	1,00	28.67	8
N	GLY	A	4	8.217	27.113	13.162	1.00	26.86	7
CA	GLY	A	4	7.475	26.074	13,835	1.00	26.12	6
C	GLY	A	4	7.370	24.786	13.036	1.00	26.70	6
0	GLY	A	4	6.376	24.071	13,171	1.00	27.71	8
N	THR	Α	4	8.377	24.450	12.237	1.00	25.43	7
CA	THR	Α	4	8,323	23.222	11,440	1.00	24.02	6
CB	THR	A	4	8.749	23.499	9.993	1.00	21.80	6
0	THR	Α	4	8.766	22.279	9.243	1.00	19,29	8
C	THR	A.	4	10.113	24.167	9.915	1.00	20.36	6
C	THR	A	4	9.131	22.138	12.134	1.00	24.60	6
0	THR	Α	4	10.324	22.291	12.401	1.00	24.92	8
N	ASN	Α	4	8.455	21.061	12.542	1.00	24.70	7
CA	ASN	A	4	9.067	20.005	13.322	1.00	24.60	6
CB	ASN	Α	4	8.250	19,701	14,591	1.00	23.50	6
C.	ASN	Α	4	7.907	20.924	15.404	1.00	23.01	6
0	ASN	Α	4	8.801	21.625	15.878	1.00	26,17	8
N	ASN	Α	4	6.616	21.179	15.556	1.00	22.16	7
C	ASN	A	4	9.204	18.667	12.604	1.00	24.49	6
0	ASN	Α	4	8.407	18.309	11.745	1.00	24.10	8
N	GLY	Α	4	10.187	17.896	13.071	1.00	24.98	7
CA	GLY	Α	4	10.420	16.572	12.516	1.00	26.39	6
<u>C</u>	GLY	A	4	11,169	15.675	13.491	1.00	26.58	6

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		7	SE		A	14			927		377	13.36		1.0	_				
	_	Α	SE	_	Â	4	_					_					.36	_	7
				$\overline{}$	_	_			586		<u> 366</u>	14.17	_	1.0			.27	44	6
		В	SE		Ą	14	_		<u>743</u>		925	15.36		1.0			.64	Ш	<u>6</u>
	Lo		SEI	_	A	14	_		<u> 364</u>	13.		16.22	4	1.0	10	26	.79	1	8
	C		SEI	R	A	4	1	11.	856	12.	135	13.30	2	1.0	0	28	.72	T	6
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	_	_	LEI		Ą	4		15.5		11.7		9.863	_	1.0		26.		16	
	ြင	-	LE		A_	14		13.5		10.2		9.521	_	1.0	0	26.	42	l e	<u>:</u>
	<u> L</u> C	-4	LEU		A_	4	4	13.6	<u> 000</u>	9.19	8_	13.77	7	1.0	0	29.	89	6	į
	0	4	LEU	Ц	A	4	4	4.0	800	9.49	2	14.90	6	1.0	0	30.	25	8	,
	N	_	ILE		A	4	\perp_1	13.1	95	7.97	2	13.47	4	1.0	0 1	30.		7	
	LC.	Αĺ	ILE	_[.	A	4		3.4		6.83		14.35		1.0		31.		6	-
	CI	в	ILE	Т.	A	4		2.1		6.16		14.86		1.0		30.		6	
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	И	4	PHE	4	A.	4	11	5.3	42	5.37	6	14.279	1	1.00	ı	34.	56	7	_
	CA	V	PHE	1	A.	4	1	6.2	40	4,38	8	13.690	П	1.00		36.		6	ī
	CE	3	PHE		A.	4	Ti	7.6	55	4.95	В	13.596		1.00	-	36.3		6	7
	С	Т	PHE		4	4		7.7		6.08		12.608	_	1.00		36.6		6	┪
	C	7	PHE		4	4		7.6		7.40		13.015			_			_	۲
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	CE	7	PHE	12	_	_				5.82		11.268		1.00	_	36.5		6	4
	_	_		_	_	4		7.7		8.43		12.109		1,00		36.2		6	4
	CE	_	PHE	1		4		8.10		6.85		10.360		1.00	4	35,2	22	6	4
	CZ	-	PHE	14		4		8.0		8.164		10.780		1.00	1	34.6	57	6	┙
	C		<u>PHE</u>	14	ч	4	1	<u> 6.2:</u>	12	3.087	7	14,484		1.00	1	37.6	4	6	1
	0		PHE	1.0	4	4	1	<u> 5.9</u> 4	15	3.087		15,685	:	1.00	Ŀ	37.3	10	8	7
	N	1	LYS	IA	Ц	4	10	5,42	28	1.970		13.796		1.00	T	39.2	0	7	7
	CA	Ŀ	LYS	I A	\Box	4	10	5.38	39	0.662	: 1	14.445		1.00		41.0		6	1
	CB		LYS	A	·Τ	4		5.10		-0.07		14.064		00.1	_	43.2	_	6	1
	C	T	LYS.	A	π	4		5.20		-1.55		13.771		.00		45.8		6	1
	C		LYS	A	_	4		1.07		-2.33		14.425		.00		49.5		_	1
	CE		LYS	Ā		4		3,74		-3.58								<u>6</u>	┨
	NZ	-	YS	Ā	+	4						13.620	_	.00	_	51.8		6	4
		_			╙			.97		<u>-4.35</u>		13.251		.00		4.3		7_	1
	C	_	YS	ļ٨	_	4		.64	_	-0.13	_	14.115	41	.00	14	12,3	7	6	ļ
	0		ys	Į₽	_	4		80.1		-0.19		12.970	12	.00	کا	1.8	2	8	1
	N	_	YS	A	4	4	18	.21	5	-0.759	1	15.142	1	.00	L	4.3	5	7	ı
	CA		YS	A	4	4	19	.41	6	-1.569	1	14.990	1	.00	4	16.8	7	6	l
	CB	11	YS	A	1	4	20	.01	3_	-1.879		16.366	1	.00	4	9,1	6	6	l
	C	П	YS	LA	Ŀ	4_	21	.52	7_	-1.964	П	16.399		.00		2.6	_	6	١
ı	C	I	YS	A	T	4		.01		-3.371	_	16.089		.00	_	4.9		6_	ı
i	CE	Τī	YS	A	Т.	4		.49		3.518	_	16.391	_	.00		6.19		5	ı
ľ	NZ	_	YS	Ā	_	•		.34		3.018		15.277	_	.00				7	ı
	C		YS	A	_			.10			_		_	_		6.91	_	-	ı
l	ŏ		YS	_	_	_				2.876	_	14.269	_	.00		8.27		1	l
I				Ą	-	Н		16		3.580		4.652		.00		8.31		4	
I	N		LE_	Α	_	ч		.86		<u> 3,191</u>		3.230	11	.00	5	0.03	نك	L	
l	CA		LE_	A	14	Ц		70		4,461	_11	2.522	1	00	5	1,93	LL€	<u>. </u>	
ļ	CB		LE_	A	13	Ц	19	304	ŁĮ.	4.278		1.053	Lī.	00	_	3.55		; 7	
١	C_	Ш	LE_	Α	1	Ц	19	778	<u>.</u> [:	5.421		0.163		00	_	4.48	_		
ĺ	C		LE	A	I	_		777		4.145		0.945	$\overline{}$	00		3.27		_	
ĺ	С	_	ĿΕ	Α	4	_		291	_	3.765		564	_	00	_		_	_	
ľ	С		E	Α	14	_		994	_	5.269	_	2.659		00		4.97			
İ	Ŏ.		E	Â	1	_		398					_	_		2.78			
t	01		AT	w	5				_	5.522		3.816		00	_	4.07	_	_	
ĺ	_				_	_		478		7,601		9.536		00		9.73	_	_	
۱	<u>01</u>		AT	W	15	_		076		0.754		2.535	_	00		5.84	18	┙	
	Q1		AT	W	5	_		<u>737</u>	_	2.257		9.752	l.	00	20	2.81	8	J	
L	01	W	AT	W	5		28.	2 <u>34</u>	قل	0.811	12	839	1.	00		9.99	8	J	

Го	1 WA	T	w	T =	104.64	0 00 1		1 4 000			1		_
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Ĭ		_	w	5	15.26			5.435		<u>00</u> 00	21.4		8
0			w	5	29.87			23.05		00	27.8	_	8
Q			W	5	8.228			7.960	_	00			8
0			W	5	25,35	0 -0.83	32	-1.565		00	33.8		8
D		I.	W	5	23.40	1 42.2	96	15.10	_	00	39.3		8
Ō		_	W	5	22.52	1 37.5	86	20,198	3 1.0	00	39.7	_	8
18			W	5	35.69			-9.343	1.0	00	45.4	5	8
뇽		_	W	5	8,464	1.674		8.701		00	48.5		8
8	_		W W	5	14.31			19,439	_	00	43.0	_	8
lo		_	w	5	9,624	_		6.351	_	20	41.78		8
o		_	w	5	31.169	13.27		34.855 9.374			46.76		8
0			w	5	37,224			2.117	1.0		48.9		8
0			w	5	0.645	16.10		12.588		_	51.59	_	<u>o.</u> 8
0	WA'	r	w	5	1,627	11.62		29.727			42.16		8
0			W	5	13.937		$\overline{}$	26.436		_	51.44		8
0	_		w	5	30.994	42.92	7	5,494	1.0		51.60	_	3
101			w	<u>5</u>	31.903		_	2.731	1.0	0	52,75	1	3
ပြွ	_	_	W	5	8.997	5.935		-10.232			49.23	L	3_
01			W	5	41.291		$\overline{}$	-1.863	1.0		52.73		_
Ŏ.			w	5	4.756	26.89		30.457	1.0	_	58.53	_	
οi	WAT		₩Ì	5	11.584 33.094			17.142 32.080	11.0	_	53.90	_	
01	WAT		_+	5	5.401	-7.420	_	13,608	1.0	_	57.62		
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1	CB	L		вТ	2	-5.685	1:	3.199	1.	1	0.00	To.	٦
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3	CD	14			2	4.260		3.812			0.00	O.	٦
4_	CE	11			2	-3.315	45	5.000		1	0.00	0.	
5	NZ	ĮĻ,	_		2	-2.850	_	5.406	-		.00	0.	_
6 7	C	L	_	$\overline{}$	2	-6.109		.140	·		.00	0.	4
8	N	Ĺ	+	_	2	5 524		109	 	7	.00	0.	4
9	CA	Ĭ	Ť	_	2	-5.524 -5.318	_	2.911 3.855			.00	0.	┨
N	ARG	В	3	_	5.409	6.268	_	1.248	0.00		.00	7	ł
CA	ARG	В	3	_	6.048	7.556		1.019	0.00		.00	6	1
CB	ARG	В	3	_	5.523	8.164		.286	0.00		,00	6	1
<u>C</u>	ARG	В	3	4	6.160	7.568	_	.531	0.00	_	.00	6	1
C_	ARG	B	13	_	5.244	7.692	2	.736	0.00		.00	6	Ī
N_	ARG	B	3	_	5.086	9.074	13	.168	0.00	0	.00	7]
CZ.	ARG	B	13	_	5.833	9.683		.077	0.00		.00	6	ļ
N N	ARG ARG	B	3	_	6.834	9.048		.674	0.00	_	.00	7	ļ
c.	ARG	В	3	_	5.580 5.845	10.947	_	.395	0.00	_	00	7	ł
ŏ	ARG	В	3		4.724	8.535 8.919		2.167	0.00	7	00	6	l
N	ARG	В	4	1.	6.958	8.957		2.498 2.759	0.00			7	l
CA	ARG	В	4		6.949	9.879		.884	0.00		60	6	
СВ	ARG	В	4		8.191	9.657		.753	0.00		00	6	
	ARG	В	4		3.287	8.262		.351	0.00		00	6	
	ARG	В	4	Ŀ	9.716	7.922	_	.750	0.00	ĺ	00	6	ĺ
<u> </u>	ARG	В	4		10.353	9.005		.482	0.00		00	7	
'		70		1 1	1	0 000							
CZ	ARG	B B	4	$\overline{}$	1.372	8.909 7.739		.583	0.00 0.00	Ų,	00	6	

N	ARG	2 11	В	4 -11.83	8 10.00	4 7011	100	0 1 0 00	
Ĉ	ARC	_	_	4 -6.886	11.33		_		_
ŏ	ARC		_	4 -7.460	11.71				_
N	VAI		_	6.150	12.14			_	
C		_	_	-5.980	13.55				6
C			_	-4.499	13.967		_		16
C	VAI	, 1			15.410		_		6
C	VAI	, I			13.046		0.0	_	6
C	VAI	, E			14.423				6
0	VAL	. 1			14.236		0.0		8
N	VAL	. I			15,377		0.0		7
CA					16.289		0.0		6
CI	3 VAL	. TE	1 6	-9.689	16.096		0.00		6
C	VAL		6	-10.108	3 14.791		0.00		6
C	VAL		6	-10.201	7 16.146	-3.921	0.00	0,00	6
C	VAL		6	-7.835	17,739		0.00		6
Q	VAL	<u> B</u>	6	-7,351	18.031	-3.954	0.00		. 8
N	VAL	$\perp B$	17	-8.082	18.647	-5.981	0.00	0.00	7
CA		B		-7.829	20.072	-5.781	0.00	0.00	6
CE		<u> </u>		-7.171	20,707	-7.016	0.00	0.00	6
<u> </u> C	VAL	<u> B</u>		-6.746	22,142	-6.736	0.00	0.00	6
C	VAL	<u> B</u>	7	-5.973	19.884	-7.474	0.00	0.00	6
C	VAL	<u> </u>	17	-9.141	20,780	-5,464	0.00	0.00	6
0	VAL	B	7	-10.056		-6,287	0.00		8
N	THR		8	-9.248	21.344	-4.264	0.00		7
CA	THR		8	-10,464	22.008	-3.833	0.00		6
CB		HB.	18	-10.960		-2.496	0.00		6
O C	THR	B	18	-10.012	21.721	-1.470	0.00		- 8
C	THR	+품	18	-11.126	19.888	-2.579	10.00		6
Ö	THR	B B	8	-10.367	23.504	-3.600	0.00	0.00	6
N	GLY	B	18	-11.293 -9.286	24.068 24.153	-3.004	0.00	0.00	7
CA	GLY	В	9	-9.144	25.589	-4.005 -3.757	0.00	0.00	6
C	GLY	B	9	-7.950	26,136	4.528	0.00	0.00	6
0	GLY	В	9	-6.886	25.518	4.564	0.00	0.00	8
N	LEU	В	1	-8.152	27,280	-5.174	0.00	0.00	17
CA	LEU	В	1	-7.105	27.900	-5.976	0.00	0.00	6
CB	LEU	В	1	-7.446	27.838	-7.465	0.00	0.00	6
С	LEU	В	lı	-7.764	26,482	-8.091	0.00	0.00	6
C	LEU	В	1	-8.238	26.644	-9.528	0.00	0.00	6
C	LEU	В	1	-6.558	25.554	-8.027	0.00	0.00	6
C	LEU	В	1	-6.897	29,350	-5,557	0.00	0.00	6
0	LEU	B	1	-7.841	30.024	-5.142	0.00	0.00	8
N	GLY	В	1	-5.664	29.823	-5,668	0.00	0.00	7
CA	GLY	B	1	-5.349	31.207	-5.306	0.00	0.00	6
<u>c</u>	GLY	B	1	-4.062	31.628	-6.007	0.00	0.00	6
0	GLY	B	1	-3.216	30.774	-6.284	0.00	0.00	8
N	MET	B	1	-3.931	32.914	-6.317	0.00	0.00	7
CA	MET	B.	1	-2.727	33.388	-6.974	0.00	0.00	6
CB	MET	B	1	-2,490	32.625	8.282	0.00	0.00	6
SD	MET	В	Ļ	-2.990	33.281	-9.554	0.00	0.00	6
CE	MET	B	ļ	-2.427	32.418	-11.033	0.00	0.00	1
c	MET	В	1	-3.853	31.394	-11.381	0.00	0.00	6
ŏ	MET	В	1	-2.670 -3.628	34.885	-7.258	0.00	0.00	6
Ň	LEU	В	1	-3.628	35.626 35.318	7.402	0.00	0.00	8
CA	LEU	В	1	-1.423	36.658	7.387	0.00	0.00	7
CB	LEU	В	1	-0.345		-7.762 -6.630	0.00	0.00	6
C	LEU	В	1	-0.345	37.416	-6.630 -5.431	0.00	0.00	6
C	LEU	В	1	-0.386	37.931	-5.431 -4.173	0.00	0.00	6
č	LEU	В	î	-2.012	39.053	-5.721	0.00	0.00	6
Č	LEU	В	î	-0.049	36.455	-8.933	0.00	0.00	6
ō	LEU	В	i	0.878	35.652	-8.823	0.00	0.00	8
N	SER	В	1	-0.290		10.034	_	0.00	7
		_					v	-1	

LC.		_	<u>B</u>		37.004			0.00	
C			B :	l -0.015	35.962	-12.15	0.00	0.00	
0	SEI		B L	-0.875	36.553	-13.112	0.00	0.00	
Ç	SEI	_	B 1	0.707	38.350	-11.895	0.00	0.00	
0	SEF	<u>. </u>	<u>B. 1</u>	-0.036	39,287	-11.612	0.00	0.00	
N	PRO	1	<u>B. J</u>	1.592	38.431	-12.880	0.00	0.00	
C	PRO	ш	<u>3 1</u>	2.528	37.351	-13.288	0.00	0.00	
C	A PRO	1	3 1	1.796	39.632	-13.665	0.00	0.00	
CI	3 PRC		3 1	3.008	39.317	-14.535			
C	PRO)]	3 1	3.661	38.139				7
C	PRC		3 1	0.602	40.043	-14.509			
	PRC) [3 1	0.561	41,209				
N	VAL	[3 1	-0.355	39.168				7
CA	VAL	E	3 1	-1.521	39.561	-15.592			7
CE	VAL	E	3 1	-1.781	38.692				7
С	VAL	E	3 1	-0.708	38.926		_		7
C	VAL	E	1	-1.882	37.219				7
C	VAL	E	_	-2.799	39.600		0.00		+
0	VAL			-3.883	39.725				+
N	GLY		_	-2.703	39.502			_	+
CA		B		-3.904	39.542	-12.612	0.00		+
C	GLY	B	_	-3.619	39,258	-11.146	0.00		\dagger
o	GLY	B		-2.708	38,499				
N	ASN	B	_	-4.419	39.856	-10.817	0.00		+
CA	ASN		_	4.271		-10.269	0.00		+
CB		B	_	4.557	39.693	-8,833	0.00	_	+
Ç	ASN	B			41.013	-8.113	0.00		+
ŏ	ASN	В		3.346	41.910	-7.977	0.00		4
N	ASN	TB	_	-2.706	42.284	-8.961	0.00		4
C.	ASN	В	Tî	-3.014	42,291	-6.748	0.00		+
ō	ASN	B	_	-5.170	38.603	-8.269	0.00		+
N	THR	B	+	-5.198	38.386	-7.058	0.00	0.00	+
	THR	B	11.	-5.984	37.976	-9.104	0.00	_	4
CA CB		B	+-	-6.834	36.866	-8.721	0,00		4
0	THR	B	+	-8.337	37.195	-8,653	0.00	0.00	4
c	THR	В	++	-8.753	37,727	-9.920	0.00	0.00	μ
Ċ.	THR	B	1	-8,673	38.174	-7.548	0.00	0.00	Ľ
ŏ	THR	В	17	-6.685	35,733	-9.743	0.00	0.00	Ľ
N.	VAL	В	$\frac{1}{2}$	-6.175	35.946	-10.840	0.00	0.00	Ľ
CA	VAL	В	2	-7.245	34.576	-9.417	0.00	0.00	Ľ
CB	VAL	В		-7.206	33,430	-10.309	0.00	0.00	Ļ
C		_	2	-7.775	32.172	-9.621	0,00	0.00	ŀ
	VAL	B	12	-7.815	30.979	-10.564	0.00	0.00	Ļ
<u>c</u>	VAL	•	2	-6.945	31.826	-8.392	0.00	0.00	Le
Ç_	VAL	B	2	-7.959	33.676	-11.609	0.00	0.00	L
0	VAL	B	2	-7.390	33.528	-12.694	0.00	0.00	8
N CA	GLU	B	2	-9.235	34.032	-11.517	0.00	0.00	7
CA	GLU	문	2	-10.064	34.260	-12.692	0.00	0.00	6
CB C	GLU	B	2	-11.531	34.440	-12,281	0.00	0.00	6
ဌ니	GLU	B	2	-12.137	33.233	-11.590	0.00	0.00	6
닺	GLU	<u>B</u>	2	-12.288	32,006	-12.464	0.00	0.00	6
<u> </u>	GLU	В	2	-12.184	32.123	-13.703	0.00	0.00	8
<u> </u>	GLU	B	2	-12.522	30.903		0.00	0.00	8
<u>ç</u>	GLU	B	2	-9.599	35.406		0.00	0.00	6
읖ㅣ	GLU	В	2	-9.489	35.218		0.00	0.00	8
<u>N</u>	SER	<u>B</u>	2	-9.214	36.545		0.00	0,00	7
CA	SER	В	2	-8,706	37.658		0.00	0.00	6
_	SER	В	2	-8.514	38,913	-12.967	0.00	0.00	6
<u>0 </u>	SER	В	2	-7.593	38,724	-11.911	0,00	0.00	8
c	SER	В	2	-7.429				0.00	6
0	SER	В	2	-7.234				0.00	8
N	THR	В	2	-6.555				0.00	7
CA	THR	В	2	-5.319				0.00	6
	THR	В	2	4.442				0.00	6
	THR	В	2	-3.761				0.00	8
_							- · × × 1	4000	ч.

_	1	Τ.							
C	THR	_	_	-3.400	34,381		_		- 6
Š	THR	_		-5.685	35.070		_		_ 6
0	THR			-5.100	35.126			_	8
N CA	TRP	+B		-6.625	34.166				7
		B		-7.069	33.187				- 6
CB	TRP	B		-8.124	32.257		0.00		6
1c	TRP	\ B	2	-8.554	31,131	-16.610	_		6
CE		B	2	-7.715 -8.556	30,225	-17.335			6
CE		T _B	12	-6.330	29.338 30.079	-18.035 -17.462			6
C	TRP	ĺβ	2	-9.839	30.763	-16.892			6
N	TRP	В	2	-9.849	29.686	-17.746	_	0.00	7
CZ	TRP	B	2	-8.062	28.322	-18.849		0.00	6
CZ	TRP	В	2	-5.840	29.069	-18,269	0.00	0.00	6
C	TRP	В	2	-6.704	28.201	-18,952	0.00	0.00	6
С	TRP	В	2	-7.583	33.858	-17.592	0.00	0.00	6
0	TRP	В	2	-7.160	33.508	-18.694	0.00	0.00	8
N	LYS	В	2	-8.470	34.834	-17.456	0.00	0.00	7
CA	LYS	В	2	-9.042	35.564	-18.576	0.00	0.00	6
CB	LYS	В	2	-10.109	36.555	-18.097	0.00	0.00	6
С	LYS	В	2	-11.283	35.913	-17.377	0.00	0.00	6
C	LYS	В	2	-12.370	36.937	-17,083	0.00	0.00	6
CE	LYS	B	2	-13.606	36,274	-16.497	0.00	0.00	6
NZ	LYS	B	12	-14.851	36.738	-17.170	0.00	0.00	7
C.	LYS	В	2	-8.001	36,320	-19.393	0.00	0.00	6
0	LYS	В	2	-8.069	36,331	-20.626	0.00	0.00	8
N	ALA	₽.	2	-7.024	36.927	-18.727	0,00	0.00	17
CA	ALA	₩.	2	-5.956	37.637	-19.422	0.00	0.00	6
CB	ALA	B	2	-5.089	38,401	-18.433	0.00	0.00	6
ŏ	ALA	B B	2	-5,117 -4,735	36.686 37.026	-20.267	0.00	0.00	6
N	LEU	В	2	-4.852	35.485	-21.390 -19.765	0.00	0.00	8 7
CA	LEU	В	2	4.074	34.491	-20.487	0.00	0.00	6
CB	LEU	В	2	-3,722	33,310	-19.585	0.00	0.00	6
C	LEU	В	2	-2.629	33.472	-18.534	0.00	0.00	6
С	LEU	В	2	-2.164	32.095	-18.065	0.00	0.00	6
С	LEU	В	2	-1.441	34.278	-19.038	0.00	0.00	6
C	LEU	В	2	-4.782	33.983	-21,736	0.00	0.00	6
0	LEU	B	2	-4.157	33.830	-22.788	0.00	0.00	8
N	LEU	B	2	-6.090	33.756	-21.655	0.00	0.00	7
CA	LEU	В	2	-6.862	33.296	-22.804	0.00	0.00	6
CB	LEU	B	2	-8.251	32.826	-22.371	0.00	0,00	6
ç	LEU	B	2	-8.328	31.592	-21.467	0.00	0.00	16
ç	LEU	В	2	-9.775	31.260	-21.133	0.00	0.00	6
Ç	LEU	В	2	-7.647	30,388	-22.099	0.00	0.00	6
C O	LEU	B	2	-6.965 -6.998	34.357	-23.891	0.00	0.00	6
N	ALA	В	2	-6.884	34.023 35.636	-25.078 -23.540	0.00	0.00	8
CA	ALA	В	2	-6.886	36,733	-24.490	0.00	0.00	7
СВ	ALA	В	2	-7.539	37.965	-24.490	0.00	0.00	6
C	ALA	В	2	-5.491	37.096	-24.980	0.00	0.00	6
0	ALA	В	2	-5.332	38.055	-25.741	0.00	0.00	8
N	GLY	В	3	-4.463	36.382	24.544	0.00	0.00	7
CA	GLY	В	3	-3.096	36.619	-24.953	0.00	0.00	6
С	GLY	В	3	-2.487	37.912	-24.446	0.00	0.00	6
0	GLY	В	3	-1.571	38.445	-25.078	0.00	0.00	8
N	GLN	В	3	-2.918	38.388	-23.283	0.00	0.00	7
CA	GLN	В	3	-2.359	39.598	-22.699	0.00	0.00	6
CB	GLN	В	3	-3.312	40.181	-21.654	0.00	0.00	6
<u>c </u>	GLN	В	3	4.566	40.798	-22.243	0.00	0.00	6
c	GLN	В	3	-5.525	41.358	-21.215	0.00	0.00	6
0 1	GLN	<u>B</u>	3	-5.143	41.723			0.00	8
N	GLN	픠	3	-6.801	41.435			0.00	7
<u>C </u>	GLN	В	3	-0.990	39.329	-22.078	0.00	0.00	6

10	GL	Ш	3 3			-21.42	9 0.00	0.00	. 8	-
צ	SEF		3 3		40.251	-22.30	7 0.00	0.00	7	
C	ASER	Ш	3 3	1.278	40.169	-21.73	9 0.00		6	
C	BSER	L	3 3	2.294	40.807				. 6	
0	SER	: []:	3 3	3.597	40.831		_		8	
С	SER			1.274	40.874			_	6	
0	SER		_	0.498	41.811		_		8	-
N	GLY		_	2.110	40,424				7	-
Ç.			_	2.170	41.044					-
C	GLY			3.536					6	-
ŏ	GLY				41.687				- 6	-
N	ILE	T B		3.897	42.130				- 8	_
	TILE	_	_	4.303	41,749				- 7	_
C		15	_	5.671	42.238				6	_
CE		<u> </u>	_	6.473	41.482	-20.089			6	_
ļ <u>c</u>	ILE	_ B	_	7.954	41.783	-19.950	0.00	0.00	16	_
LC.	ILE	<u>↓B</u>		6.125	40.003	-19.990	0.00	0.00	16	
C	ILE	<u> B</u>		7.148	38.944	-20.253	0.00	0.00	6	
C	ILE	B	3	5.778	43.741	-19.184	0.00	0.00	6	
0	ILE	B	3	5.345	44.318	-20.180	0.00	0.00	8	
N	SER	B	3	6.393	44.396	-18.204	0.00	0.00	7	٦
CA	SER	B	3	6,552	45.837	-18.154	0.00	0.00	6	٦
CE	SER	ĺВ	3	5.698	46.401	-17.008	0.00	0.00	6	٦
0	SER	В		4.422	46.810	-17.454	0.00	0.00	В	1
C	SER	В	13	7.998	46.253	-17.896	0.00	0.00	6	i
0	SER	В	3	8.837	45,419	-17.558		0.00	8	1
N	LEU	B	3	8.270	47,548	-18.011	0.00	0.00	7	1
CA		В	3	9.597	48.088	-17.731	0.00	0.00	6	1
CB		B	3	9.788	49.454	-18.383	0.00	0.00	6	ł
C	LEU	B	3	10.093	49.512	-19.878	0.00	0.00	_	┨
c	LEU	B	3	10.049	50,952	-20.370	0.00		16	1
Č	LEU	B	3	11.445	48.888	-20.193	0.00	0.00	6	1
Č	LEU	В	3	9.778	48.224	-16.219	0.00		6	ł
ŏ	LEU	B	3	8.828	48.607			0.00	6	┨
N	ILE	В	3	10.960		-15.534	0.00	0.00	18	ł
CA	ILE	В	3		47.910	-15.704	0.00	0.00	17	1
CB	ILE	B	3	11.197	48.024	-14,264	0.00	0.00	16	1
c			_	12.471	47.285	-13,832	0.00	0.00	16	1
c	ILE	B	3	12.855	47,610	-12,395	0,00	0.00	6	ł
	ILE	B	13	12,293	45,770	-13.991	0.00	0.00	18	l
드	ILE	₽ B	3	13.596	45.010	-14.122	0.00	0.00	16	ı
Č	ILE	B	3	11.289	49.497	-13.874	0.00	0.00	16	l
0	ILE	B	3	11.972	50.271	-14.546	0.00	0.00	18	ı
N	ASP	B	3	10.643	49.871	-12.772	0.00	0.00	7	ı
CA	ASP	B	3	10.675	51,259	-12.331	0.00	0.00	6	l
CB	ASP	B	3	9.336	51,943	-12.629	0.00	0.00	6	ı
<u> </u>	ASP	В	3	8.143	51,205	-12,064	0.00	0.00	6	ı
0	ASP	B	3	7.473	51.744	-11.160	0.00	0.00	8	ŀ
0	ASP	B	3	7.855	50,079	-12.525	0.00	0.00	8	l
C	ASP	B	3	11.031	51.429	-10.863	0,00	0.00	6	
0	ASP	B	3	11.153	52.575	-10,414	0.00	0.00	8	i
N	HIS	B	3	11.266	50.348	-10.127	0.00	0.00	7	1
CA	HIS	В	3	11.539	50,473	-8.696	0,00	0.00	6	
CB	HIS	В	3	10.808	49.400	-7.893	0,00	0.00	6	
C	HIS	В	3	11.110	48.005	-8.342	0.00	0.00	6	
С	HIS	В	3	10.636	47.274	-9.377	0.00	0.00	6	
N	HIS	В	3	12.022	47.210	-7.684	0.00	0.00	7	
CE	HIS	B	3	12.091	46.042	-8.295	0.00	0.00	_	
N	HIS	В	3	11.264	46.052	-9.324			6	
C	HIS						0.00	0.00	7	
0	HIS	B B	3	13.020	50.517	-8.359	0.00	0.00	6	
N.			$\overline{}$	13.389	50.654	-7.190	0.00	0.00	8	
	PHE	В	4	13.883	50,454	-9.362	0.00	0.00	7	
CA	PHE	В	4	15.318	50.638	-9,192	0.00	0.00	6	
CB	PHE	В	4	16.061	49.447	-8.633	0.00	0.00	6	
Ç	PHE	В	4	16.131	48,199	-9.458	0.00	0.00	6	
لے	PHE	В	4	15,223	47,174	-9.253	0.00	0,00	6	

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C	PHE	∫B	4	17.120	48.028	-10.416	0.00	0.00	6
CE	PHE	В	4	15.281	46.015	-10.000	0.00	0.00	6
CE	PHE	В	4	17.184	46.867	-11.163		0.00	6
CZ	_	В	4	16.264	45.859	-10.957	0.00	0.00	6
C	PHE	В	4	15.893	51.121	-10.527	0.00	0,00	6
ŏ	PHE	В	4	15.265	50.943	-11.571	0.00	0.00	8
N	ASP	B	4						_
		-	_	17.003	51.846	-10.472	0.00	0.00	17
CA	ASP	B	4	17.611	52,372	-11.690	0.00	0.00	6_
CB		B	4	18.687	53.406	-11.349	0.00	0.00	16
ļ <u>c</u>	ASP	<u>↓B</u>	4	18.923	54.376	·12.491	0.00	0.00	6
0	ASP	↓B	14.	17,932	54.804	-13.121	0.00	0.00	8
Q.	ASP	B	14	20.095	54.711	-12.759	0.00	0.00	8
C	ASP	<u>↓B</u>	14	18.201	51.255	-12.541	0.00	0.00	6
0	ASP	B	4	19.158	50.593	-12.140	0.00	0.00	8
N_	THR	В	4	17.644	51,053	-13.732	0.00	0.00	7
CA	THR	В	4	18.114	50.015	14.639	0.00	0.00	6
CB	THR	В	4	16.921	49.251	-15.254	0.00	0.00	6
0	THR	В	4	16.088	50,174	-15.962	0.00	0.00	8
C	THR	В	4	16.100	48.566	-14.175	0.00	0.00	6
C	THR	B	4	19.000	50,539	-15.760	0.00	0.00	6
0	THR	В	4	19.202	49.864	-16.774	0.00	0.00	8
N	SER	_	_	_					
CA	SER	B	4	19.645	51.679	-15.568	0.00	0.00	17
		B	4	20.508	52.311	·16.548	0.00	0.00	16
CB	SER	B	4	21.084	53.616	-15.972	0.00	0.00	16
0	SER	B	4	20.143	54.668	·16.102	0.00	0.00	8
C	SER	B	4	21.666	51,451	-17.029	0.00	0.00	6
0	SER	В	4	21.952	51.395	-18.226	0.00	0.00	18
N_	ALA	B	4	22.351	50.775	-16.116	0.00	0.00	7
CA	ALA	B	4	23.483	49,923	-16.440	0.00	0.00	6
CB	ALA	В	14	24.439	49.900	-15.247	0.00	0.00	6
C	ALA	В	4	23.094	48.490	-16.774	0.00	0.00	6
0	ALA	В	4	23.937	47.679	-17.164	0.00	0.00	8
N	TYR	В	4	21.823	48.159	-16.611	0.00	0.00	7
CA	TYR	В	4	21.336	46.806	-16.810	0.00	0.00	6
CB	TYR	В	4	20.088	46,602	-15.938	0.00	0.00	6
C	TYR	В	4	20.413	46.522	-14.460	0.00	0.00	6
C	TYR	В	4	20,745	47.655	-13.731	0.00	0.00	6
CE	TYR	В	4	21.048	47.578	-12.383	0.00	0.00	6
C	TYR	В	4	20.391	45.303	-13.795	0.00	0.00	6
CE	TYR	В	4	20.690	45,216	-12.449	0.00	0.00	6
CZ	TYR	В	4	21.014	46.355	-11.747	0.00	0.00	6
0	TYR	В	4	21.313	46.273	-10.407	0.00	0.00	8
С	TYR	В	4	21,059	46,459	-18.261	0.00	0.00	6
ō	TYR	В	4	20.554	47,253	-19.049	0.00	0.00	8
N	ALA	В	4	21.370	45.209	-18.607	0.00	0.00	7
CA	ALA	B	4	21.142	44.684	-19.946	0.00	0.00	6
ÇB	ALA	В	4	22.005	43.456	-20.186	0.00	0.00	6
c	ALA	B	4	19.666	44.352	-20.146	0.00	0.00	6
ŏ	ALA	В	4	19.154	44.407	-21.263		0.00	8
N		В	4	18.993			0.00		7
CA	THR	В			43.971	-19,067	0.00	0.00	_
			4	17.560	43.695	19.106	0.00	0.00	6
CB	THR	B	4	17.216	42.255	-18.717	0.00	0.00	6
9	THR	B	4	17.923	41.358	-19.587	0.00	0.00	8
C.	THR	В	4	15.719	42.013	-18.850	0.00	0.00	6
C	THR	В	4.	16.868	44.707	.18.197	0.00	0.00	6
0	THR	B	4	17.208	44.856	-17.024	0.00	0.00	8
N	LYS	В	4	15.919	45.441	-18.768	0.00	0.00	7
CA	LYS	В	4	15.215	46.491	-18.050	0.00	0.00	6
CB	LYS	В	4	15.389	47.815	-18.819	0.00	0.00	6
С	LYS	В	4	16.831	48.251	-19.005	0.00	0.00	6
С	LYS	В	4	17.050	48.954	-20.333	0.00	0.00	6
CE	LYS	В	4	18.371	49.707	-20.339	0.00	0.00	6
NZ	LYS	В	4	19.484		-20.865		0.00	7
C	LYS	B	4	13.734			_	0.00	6
									لت

	T-								
Ö	LYS	48		13.002	47.106				8
N.	PHE	12		13.301	45.009				7
CA	-,	18	_	11.887	44.672	-18.067	0.00	0.00	6
CB		18	_	11.267	44.557	-19.465			6
<u>c</u>	PHE	<u> </u>	_	11.965	43.566	-20.352			6
C	PHE	B		11.550	42.247	-20.404			6
C_	PHE	B		13.041	43.957	-21.135	0.00		6
CE		↓B		12.192	41.332	-21,220	0.00		6
CE		B	_	13.689	43.046	-21.946	0.00	_	6
CZ	PHE	<u>B</u>	4	13,260	41.735	-21.996	10.00		6
č	PHE	$+\frac{\pi}{B}$	14	11.666	43.382	-17.292	0.00		6
0	PHE	B	14	12.576	42.577	-17.108	0.00		8
N CA	ALA	B	5	10.424	43.181	-16.864	0.00		17
CB	ALA	B	5	10.032	41.986	-16.135	0.00	0.00	6
C		B	5	10,666	41.977	-14.749	0.00	0.00	16
Ö	ALA	В	5	8.513 7.772	41.888	-16,010	0,00	0.00	16
N	GLY	В	5	8,060	42.820	-16.314	0.00	0.00	8
CA	GLY	В	5	6.631	40.724	-15,560 -15,301	0.00	0.00	7
C	GLY	B	5	6.446	40.886		0.00	0.00	6
ō	GLY	B	5	6.858	40.138	-13.820 -12.933	0.00	0.00	8
N	LEU	B	5	5.924	42.082	-13.579	0.00	0.00	7
CA	LEU	В	5	5.763	42.560	-12.212	0.00	0.00	6
CB	LEU	В	5	6.262	44.005	-12.103	0.00	0.00	6
Ç	LEU	В	5	7.754	44.212	-12.389	0.00	0.00	6
С	LEU	В	5	8.010	45.627	-12.886	0.00	0.00	6
С	LEU	В	5	8.586	43.905	-11.153	0.00	0.00	6
С	LEU	В	5	4.322	42.452	-11.736	0.00	0.00	6
0	LEU	В	5	3.391	42.541	-12.533	0.00	0.00	8
N	VAL	В	5	4.155	42.220	-10.437	0.00	0.00	7
CA	VAL	B	5	2.802	42,166	-9.866	0.00	0,00	6
CB	VAL	В	5	2.748	41.398	-8.547	0.00	0.00	6
C	VAL	В	15	1.428	41.596	-7.817	0.00	0.00	6
<u>c</u>	VAL	B	5	2,966	39.909	-8.810	0.00	0.00	6
<u>Č</u>	VAL	B	5	2.356	43.620	-9.731	0.00	0.00	6
0_	VAL	Į₿.	5	3.072	44.437	-9.153	0.00	0.00	18
N_	LYS	B.	5	1.232	43,952	-10.349	0.00	0.00	7
CA	LYS	B	5	0.753	45,325	-10.391	0.00	0.00	6
CB C_	LYS	B	5	0.339	45.647	-11.840	0.00	0.00	6
C_	LYS	В	5	1.523	45.696	-12,794	0.00	0.00	6
CE	LYS	В		1.113	45.408	-14.228	0.00	0.00	6
NZ	LYS	В	5	1.623 3.062	44.063 44.089	-14.705	0.00	0.00	6
C	LYS	В	5	-0.391	45.635	-15.081 -9.444	0.00	0.00	7
o i	LYS	B	5	-1.385	44.920	-9.337	0.00	0.00	8
Ň	ASP	В	5	-0.285	46,789	-9.33 <i>1</i> -8.783	0.00	0.00	7
CA	ASP	В	5	-1.310	47.298	-7.881	0.00	0.00	6
CB	ASP	В	5	-2.588	47.593	-8.678	0.00	0.00	6
c	ASP	В	5	-2.359	48.623	-9.771	0.00	0.00	6
ō	ASP	В	5	-1.815	49.702	-9.459	0.00	0.00	8
0	ASP	В	5	-2.682	48.318	-10.940	0.00	0.00	8
С	ASP	В	5	-1.600	46.349	-6,727	0.00	0.00	6
0	ASP	В	5	-2.750	46.016	-6.428	0.00	0.00	8
N	PHE	В	5	-0,549	45.928	-6.037	0.00	0.00	7
CA	PHE	В	5	-0.658	44.970	-4,945	0.00	0.00	6
СВ	PHE	В	5	0.677	44.225	-4.825	0.00	0.00	6
c]	PHE	В	5	0.791	43.249	-3.696	0.00	0.00	6
C	PHE	В	5	0.037	42.088	-3.672	0.00	0.00	6
	PHE	В	5	1.674	43.489	-2.653	0.00	0.00	6
CE	PHE	В	5	0.151	41.190	-2.629	0.00	0.00	6
CE	PHE	В	5	1.792	42.594	-1.607	0,00	0.00	6
CZ	PHE	В	5	1.029	41.443	-1.595	0.00	0.00	6
	PHE	В	5	-1.074	45.599	-3.627	0.00	0.00	6
<u>) </u>	PHE	В	5	-0.444	46.521	-3.115	0.00	0.00	8

<u> </u>	LACN	1.	7-	10.5	1.5.000	1000	1000		- 1 -
N CA	ASN		_		45.071		0.00		17
_		B	_	-2.663	45,532		0.00		16
CE		_	_	-3.948	46.342		0.00		- 6
_	ASN	부	_	4.421	46.975		0.00		6
ļģ.	ASN	B	_	-5,590	46.855		0,00		8
N	ASN	+B	_	-3.525	47.660		0.00		7_
lc_	ASN	↓ <u>B</u>		-2.914	44.343		0.00		6
0	ASN	<u> </u>	_	-3.604	43.391	-1,203	0.00		8
N	CYS	⊥B	15	-2.309	44,399		0.00	0.00	17
LCA.		<u> </u>	15	-2.467	43.334	1.322	0.00	0.00	6
CB	CYS	<u>↓B</u>	5	-1,236	42,431	1.347	0.00	0.00	6
SG	CYS	↓B	5	0.252	43,226	1.997	0.00	0.00	1
C	CYS	B	5	-2.728	43.929	2,699	0.00	0.00	6
0	LCYS	<u>l</u> B	15	-2.729	43.232	3.709	0.00	0.00	8
N	GLU	⊥B	15	-3.065	45.214	2.722	0.00	0.00	7
CA	GLU	В	5	-3.394	45.936	3.943	0.00	0.00	6
ÇB	GLU	В	5	-3.775	47.378	3.604	0.00	0.00	6
C	GLU	В	5	-3.621	48.366	4.743	0.00	0.00	6
С	GLU	В	5	-2.414	49.271	4.612	0.00	0.00	6
0	GLU	В	5	-2.406	50.339	5,266	0.00	0,00	8
0	GLU	В	5	-1.469	48.932	3.872	0.00	0.00	8.
Č	GLU	В	5	-4.520	45.260	4.717	0.00	0.00	6
0	GLU	В	5	-4.445	45.096	5.936	0.00	0.00	8
N	ASP	В	6	-5.547	44,799	4.013	0.00	0.00	7
CA	ASP	В	6	-6.654	44.067	4.601	0.00		_
CB		В	6	-7.786	43.855			0.00	16
C	ASP	В	6	-7.406		3.599	0.00	0.00	16
ŏ	ASP	В	6		43.958	2.141	0.00	0.00	6
0	ASP			7.476		1.431	0.00	0.00	8
		B	6	-7.060	45.066	1.677	0.00	0.00	8
<u> </u>	ASP	B	6	-6.217	42,726	5,186	0.00	0.00	6
0	ASP	B	6	-6.727	42,320	6.232	0.00	0.00	8
N	ILE	B	6	-5.292	42.034	4.531	0.00	0.00	7
CA	ILE	Į₿.	6	-4.814	40,742	4.995	0.00	0.00	6
CB	ILE	B	6	-4.325	39,863	3.824	0.00	0.00	16
C_	ILE	B	6	-4.200	38.412	4.270	0.00	0.00	6
C_	ILE	В	6	-5,229	39.984	2.600	0,00	0.00	6
C_	ILE	B	16	-6.659	39,533	2.774	0.00	0.00	16
C_	ILE	В	6	-3.692	40.849	6.020	0.00	0.00	16
0	ILE	B	6	-3.679	40.118	7.013	0.00	0.00	8
N	ILE	B	6	-2.663	41.635	5.720	0.00	0.00	7
CA	ILE	B	6	-1.509	41.805	6.587	0.00	0.00	6
CB	ILE	B	6	-0.185	41.329	5.963	0,00	0.00	6
C	ILE	В	6	0.946	41.398	6.985	0.00	0.00	6
C	ILE	B	6	-0.271	39,907	5.404	0.00	0.00	6
C	ILE	В	6	0.146	39.804	3.952	0.00	0.00	6
C	ILE	В	6	-1.340	43.279	6.962	0.00	0.00	6
	ILE	В	6	-1.307	44.147	6.089	0.00	0.00	8
N	SER	В	6	-1.176	43.542	8.254	0.00	0.00	7
CA	SER	В	6	-1.027	44.913	8.732	0.00	0.00	6
CB	SER	В	6	-1.109	44.966	10.258	0.00	0.00	6
0	SER	В	6	-0.358	43.920	10.849	0,00	0.00	8
С	SER	В	6	0.284	45.527	8.261	0.00	0.00	6
0	SER	В	6	1.217	44,815	7.890	0.00	0.00	8
N	ARG	В	6	0.375	46.853	8.340	0.00	0.00	7
CA	ARG	В	6	1.598	47.562	7.975	0.00	0.00	6
СВ	ARG	В	6	1.389	49.065	7.862	0.00	0.00	6
C	ARG	В	6	0.040	49.498				_
č	ARG	В	6			7.312	0.00	0.00	6
N		В	_	-0.702	50.361	8.322	0.00	0.00	6
CZ	ARG	_	6	-2.149	50,225	8.210	0.00	0.00	7
	ARG	B	6	-3.011	51.232	8,289	0.00	0,00	6
N	ARG	B	6	-2.585	52,474	8.481	0.00	0.00	7
Й	ARG	퐈	6	-4.313	51.003	8,173	0.00	0.00	7
č	ARG	퇿	6	2.688	47.252	9,003	0.00	0.00	6
0	ARG	<u>B</u> [6	3.867	47.164	8,665	0.00	0.00	8

N	LYS	E	6	2.286	47.070	10.259	0.00	0.00	7
CA	LYS	E	6	3.206	46.697	11.323	0.00		6
CE		B	_	2.497	46.565		0.00		6
C	LYS	Ī	_	1.922	47.844		0.00		6
Č	LYS	B		0.962			_	_	
CE					47.542	14.390	0.00		6
		Į₽	_	-0.211	48.508		0.00		16
NZ		<u> </u>	_	-1.501	47.832	14.094	0.00	0.00	7
C	LYS	Ų B	_	3.836	45.348	10,959	0.00	0.00	6
0	LYS	<u>↓B</u>	6	5.053	45.206	10.893	0.00	0.00	8
N	GLU	<u> B</u>	<u> 6</u>	2.985	44.370	10.663	0.00	0.00	7
CA	GLU	B	6	3,403	43.026	10,303	0.00		6
CB	GLU	В	6	2.191	42.084	10.348	0.00		6
C	GLU			1.842	41.634	11.759	0.00		6
C	GLU	B	6	2.805	40.594	12.296	0.00		
ō	GLU		6	3.270	40.746	13.444		0.00	6
ŏ	GLU	1 B	_				0.00	0.00	18
			16	3.100	39.622	11.571	0.00	0.00	18
C_	GLU	↓B	6	4.103	42.913	8.961	0.00	0.00	16
0	GLU	B	16	4.935	42.026	8.749	0.00	0.00	18
N_	GLN	<u> ↓ B</u>	6	3.833	43.819	8.034	0.00	0.00	7
CA	GLN	↓B	16	4.432	43.873	6.715	0.00	0.00	6
CB	GLN	В	6	3.810	45.047	5.948	0.00	0.00	6
C	GLN	В	6	3.455	44.788	4.497	0.00	0.00	6
С	GLN	В	6	2,649	45.939	3.918	0.00	0.00	6
0	GLN	В	6	3.186	47.022	3.682	0.00	0.00	8
N	GLN	В	6	1.359	45.711	3.700	0.00	0.00	17
Ċ	GLN	В	6	5.942					_
ŏ					44.057	6.731	0.00	0.00	6
	GLN	₽ B	6	6.651	43.615	5.825	0.00	0.00	8
N	ARG	₽	6	6,479	44.703	7.756	0.00	0.00	17
CA	ARG	B	16	7.885	44.986	7.939	0,00	0,00	16
CB	ARG	B	16	8.036	46,018	9.074	0.00	0.00	6
C	ARG	<u> </u>	16	9.323	46.817	9.005	0.00	0.00	6
C	ARG	<u> B</u>	6	10.089	46.770	10.317	0.00	0.00	6
N	ARG	B	6	11.527	46.897	10.120	0.00	0.00	7
CZ	ARG	B	6	12,168	47,990	9.730	0.00	0,00	6
N	ARG	В	6	11.506	49,112	9.476	0.00	0,00	7
N .	ARG	В	6	13.490	47.967	9.589	0.00	0.00	7
С	ARG	В	6	8.747	43.779	8.272	0.00	0.00	6
0	ARG	В	6	9.976	43.834	8.163	0.00	0.00	8
N	LYS	В	6	8.138	42.682	8.698	0.00	0.00	
ĈA	LYS	В	6	8,845	41.466	9.047			7
CB	LYS	В	6				0,00	0.00	6
C	LYS	_	_	8,136	40.762	10.211	0.00	0.00	6
c	LYS	B	6	7.765	41.649	11.385	0.00	0.00	6
		B	6	7.064	40.835	12.467	0.00	0.00	6
CE	LYS	B	6	6.806	41.674	13.707	0.00	0.00	6
NZ	LYS	B	6	5.642	41.179	14.491	0.00	0.00	7
C_	LYS	В	6	8.927	40.481	7.885	0.00	0.00	6
0	LYS	В	6	9,369	39.348	8.094	0.00	0.00	8
N	MET	В	7	8.488	40.866	6,690	0.00	0.00	7
CA	MET	В	7	8.447	39,924	5.584	0.00	0.00	6
ÇВ	MET	В	7	7.059	39.264	5.527	0.00	0.00	6
c	MET	В	7	5.892	40.186	5,822	0.00	0.00	6
SD	MET	В	7	4.290	39.377	5.704	0.00	0.00	1
CE	MET	В	7	4.070	38,756				_
C	MET	В	7	8.777		7.367	0.00	0.00	6
ŏ					40,497	4.215	0.00	0.00	6
_	MET	В	7	8.267	41,528	3.787	0.00	0.00	8.
N	ASP	В	7	9.641	39.772	3.503	0.00	0.00	7
CA	ASP	В	7	10.018	40,153	2,143	0.00	0.00	6
CB	ASP	B	7	11.102	39,217	1,616	0.00	0.00	6
C.	ASP	В	7	11.626	39.596	0.246	0.00	0.00	6
0	ASP	В	7	11.084	39.090	-0.762	0,00	0.00	8
0	ASP	В	7	12.566	40.415	0.170	0.00	0.00	8
<u>c</u>	ASP	В	7	8.766	40.077	1.273	0.00	0.00	6
ŏ	ASP	B	7	7.838	39.332	1,603	0.00	0.00	8
N	ALA	В	7	8.768		0.115	_		쉬
ا			ىب	J. 1 JO	40.141	O.I.O.	0.00	0,00	لـــُـ

												_
C		1	<u>B</u>	7 7.67	1	40.67	3 -0.8	31	0.0	0 0.00		6
С				7 8.02	1	<u>41.49</u>	<u>0 -2.0</u>	79	0.0	0 0.00	\perp L	6
C	بلد	\L	_	7 7.25	9	39,26	9 -1.2	51	0.0	0.00	\Box	6
0		نلـد	<u>B '</u>	7 6.06	1	39.05	8 -1.4	83	0.0	0 0.00	1	8
N	PHI		B !	7 8.17	6	38.31	3 -1.3	73	0.0	0.00		7
C	A PHI	E 1	В	7 7.81	1	36.95			0.0	_		6
C	B PHI	3 1	3	7 9.02		36.07			0.0			5
С	PHI		_	7 9.56		35.21	_	_	0.00			5
C	PHI		3 ,			33.88			0.00		1	
C	PHI		3			35.73			0.00		1	
C	_	_	3 7			3.100					_	_
Ci		_	3 7			4.96			0.00		- 15	
C	- 4 /	_							0.00		4	_
C	_	_	_			3.638			0.00		16	_
_	PHE	_	_			6.32			0.00		16	_
10	PHE	_				5.64			0.00		18	
N	ILE	<u> </u>			$\overline{}$	6,563		4	0.00			_
C/		I E	_			6.067			0.00	0.00	- 6	_
CI	_	Ų₽				6,219	3.02	2	0.00	0.00	6	╝
C	ILE	Ų₽			2 3	5.961	4.16	4	0.00	0.00	6	
LC	ILE	_LE	1 7	8.162	2 3	5.254	3.12	1	0.00	0.00	6	
LC	ILE			9.13	<u> 13</u>	5.593	4.23	2	0.00	0.00	6	
C	ILE	<u>B</u>	1 7	4.949) 3	6.764	1,61	1	0.00	0.00	6	П
0	ILE	B	7	3.917		6.114		7	0.00		8	_
N	GLN	В	7	4.940		8.071		4	0.00		7	
CA	GLN	В	7	3.695	3	8.826			0.00		6	_
CE	GLN	В	7	3.976		0.311	1.04		0.00		6	ヿ
C	GLN			4.678	_	0.988			0,00		6	ヿ
C	GLN	_	_	4.908		2.469	1.984		0.00		6	٦
0	GLN		7	4.269		3.091	1.13		0.00	0.00	8	┪
N	GLN	В	7	5.823		3.047	2,755		0.00	0.00	7	┪
C	GLN	B	7	2.836		3.275	0.122		0.00	0.00	6	Н
ō	GLN	В	17	1.645		3.009	0.314	$\overline{}$	0.00	0.00	_	Ⅎ
N	TYR	B	7	3.435		3.020	-1.03		0.00		18	┨
CA	TYR	В	7	2,730		7.400		_		0.00	17	H
СВ		В	7	3.639	_	7.244	2.15		0.00	0,00	6	Η.
C	TYR	B	7	4.073			-3.36		0.00	0.00	16	4
C	TYR	B	7	4.947		3.496	4.08	$\overline{}$	0.00	0.00	16	4
CE		B	7			3.395	-5.16		0.00	0.00	6	4
		_		5.370		<u>.516</u>	-5.85		0.00	0.00	16	4
CE	TYR	B	7	3.645		.764	-3.71	_	0,00	0.00	6	4
	TYR	B	+	4.069	_	.894	-4.390		0.00	0.00	6	4
CZ		B		4.932	$\overline{}$	761	-5.45		0.00	0.00	6	4
	TYR	IB.	17	5.355		.879	-6.13		0.00	0.00	8	4
C	TYR	B	17	2.186		.024	-1.768	_	0.00	0.00	16	4
0	TYR	B	17	1.028		.703	-2.037		0.00	0.00	18	1
N	GLY	B	7	3.017		.211	-1.124		0.00	0.00_	7	1
LCA.	GLY	В	7	2.646		.879	-0.696	1	0.00	0.00	6	1
C	GLY	В	7	1.432	33	.837	0.218	4	0.00	0.00	6	J
0	GLY	B	17	0.559	32	.988	0.034		0.00	0.00	8	J
N	ILE	В	7	1.382	34	.710	1.219		0.00	0.00	7	1
CA	ILE	B	7	0.258	34	760	2.144	$\perp 10$	0.00	0.00	6]
CB	ILE	B	17	0.526	35	722	3.316	\perp Lo	0.00	0.00	6	1
<u></u>	ILE	В	7	-0.694	35	837	4.222	10	0.00	0.00	6	1
C	ILE	В	7	1,736		233	4.117	_	0.00	0.00	6	ì
С	ILE	В	7	2.252		206	5.152		0.00	0.00	6	1
С	ILE	В	7	-1.035		134	1.430		0.00	0.00	6	1
0	ILE	В	7	-2.020		395	1.504	_	0.00	0.00	8	l
N	VAL	В	7	-1.024		238	0.691		0.00	0.00	7	
CA	VAL	В	7	-2.202		692	-0.045		0.00	0.00		
ÇB	VAL	В	7	-1.899		946					6	
Č	VAL	В	7	-3.022		280	-0.881		0.00	0.00	6	
Ċ		В	7			_	-1.851	$\overline{}$	0.00	0.00	6	
c	VAL VAL	В	7	-1.647		133	0.045	_	00.0	0.00	6	
				-2.773		579	-0.909	_	.00	0.00	6	
0	VAL	В	7	-3.954		247	<u>-0.786</u>		.00	0.00	8	
N	ALA	В	8	-1.946	134.	939	·1.731	10	.00	0.00	7	

<u> </u>	1	-							
CA		_	_		33.822				16
CE		_	_		33.385				- 6
Š	ALA	_			32.640		0.00		6
16	ALA		_		31.904		0.00		8
N	GLY	_	_		32.434		0.00		17
CA	CLY	_	_		31.380		0.00	0.00	6
C	GLY		_		31,650		0.00	0.00	6
0	GLY		_		30.763	1.014	0.00	0.00	. 8
N	VAL	LE	<u>1 8</u>	-4.230	32,898	1.357	0.00	0.00	7
CA	VAL	Į.	_		33.288	1.897	0.00	0,00	6
CB	VAL	Į B	8 8	-5.532	34.736	2.405	0.00	0.00	6
C	VAL	<u> </u>	8	-6.925	35.177	2.836	0.00	0,00	6
C	VAL	<u> IB</u>	8 1	-4.556	34.880	3.570	0.00	0.00	6
C	VAL	<u>l B</u>	8	-6.620	33.064	0.859	0.00	_	6
0	VAL	B	8	-7.659	32,482		0.00		8
N	GLN	В	8	-6.364	33.415	-0.397	0.00		17
CA	GLN	В	8	-7.290	33,149		0.00		6
CB	GLN			-6.721	33,632	-2.822	0.00		6
С	GLN		_	-6.689	35.138	-3.007	0.00		6
С	GLN	B		-6.219	35.543	-4.389	0.00		_
ō	GLN	B	8	-6.176	34.726	-5.309	0.00		8
N	GLN	Ϊ́В		-5.860	36.811	-4.554	0.00	_	17
C	GLN	B	8	-7.631	31.667				_
ō	GLN	B	8	-8.802	31.315	1.602	0.00		6
N	ALA	B	8	-6.629	30.793	-1.758 -1.539	0.00	0.00	7
CA	ALA	В	8	-6.857	29.358	-1.660	0.00		_
CB	ALA	B	8	-5.541			0.00	0.00	16
C	ALA	В	8		28,617	-1.828	0,00	0.00	16
ŏ	ALA	В	8	-7.647	28,802	-0.484	0.00	0.00	16
N	MET	В	8	-8.519	27.949	-0.673	0.00	0.00	18
CA	MET	B	8	-7.360 -8.113	29.274	0.724	0.00	0.00	17
CB	MET	В	8		28.856	1.902	0.00	0.00	6
C	MET	В	8	-7.490 -6.228	29.432	3.172	0.00	0.00	16
SD	MET	B	8		28,709	3.621	0.00	0.00	6
CE	MET	В		-6.445	26.925	3.753	0.00	0.00	11
C	MET	В	8	-6.387	26.701	5.528	0.00	0.00	6
ŏ		_	_	-9.574	29.266	1.757	0.00	0.00	6
N	MET GLN	B B	18	-10.478	28.445	1.919	0.00	0.00	18
CA			8	-9.809	30.522	1.397	0.00	0.00	17
CB	GLN	B	8	-11.155	31.043	1.192	0.00	0.00	6
	GLN	문	8	-11.101	32.552	0.925	0.00	0.00	6
운	GLN	B	8	-10.844	33.369	2.182	0.00	0.00	16
	GLN	B	8	-10,738	34.853	1.924	0.00	0.00	6
읝	GLN	B	8	-10.769	35.311	0.781	0.00	0.00	8
N	GLN	B.	8	-10.614	35.637	2.991	0.00	0.00	7
c 	GLN	B	8	-11.886	30.313	0.077	0.00	0.00	6
<u>0 </u>	GLN	В	8	-12.990	29.807	0,293	0.00	0.00	8
N	ASP	В	8	-11.248	30.116	-1.071	0.00	0.00	7
CA	ASP	В	8	-11,840	29.371	-2.171	0,00	0.00	6
CB	ASP	В	8	-10.878	29.284	-3.364	0.00	0.00	6
<u>c</u>	ASP	В	8	-11.590	28.837	-4.627	0,00	0.00	6
<u>Q</u>	ASP	В	8	-12.739	29.283	-4.836	0.00	0.00	8
<u>0 </u>	ASP	В	8	-11.029	28.050	-5.413	0,00	0.00	8
c	ASP	В	8	-12.257	27.955	-1.785	0.00	0.00	6
0	ASP	В	8	-13.279	27.457	-2.261	0.00	0.00	8
_	SER	В	8	-11.451	27.269	-0.987	0.00	0.00	7
CA	SER	В	8	-11.687	25.893	-0.605	0.00	0.00	6
CB	SER	В	8	-10.467	25.349	0.151	0.00	0.00	6
<u> </u>	SER	В	8	-10.360	25,936	1.435	0.00	0.00	8
_		В	8	-12.934		0.235	0.00	0.00	6
0 :	SER								8
0 ; C ;	SER	В	8	-13.620	24.651 1	0.031	0.00 1	oon i	
0 : C :	SER	В	8	-13.620 -13.196		0.031	0.00	0.00	
0 C 0			8 8	-13,196	26.528	1.203	0.00	0.00	7
O C O CA	SER GLY	B B	8		26.528 26.296				

N	LEU	J I	3 [9	-12.80	0 25.55	1 3.826	0.0	0.00	7	,
C			3 [9	-12.26			0.0		16	
C			_				0.0		16	_
C	LEL						_			
Č			_				0.0	_	4	•
Č	LEU		_				0.00		15	_
	LEU						0.00		16	_
1c	LEU						0.00	0.00	16	<u>; </u>
0	LEU		_				0.00		- 8	
N	GLU				4 24.62	7 7.112	0.00	0.00		
LC/			1 9	-13.34	6 25.130	8.474	0.00	0.00	6	;
CE	3 GLU	J E	3 9	-14.75	3 24.868	8.989	0.00	0.00	6	;
C	GLU	J B	1 9	-15.84	9 25.580		0.00		6	
C	GLU	ΓB	1 9				0.00	_	_ 6	
0	GLU	B	_						8	ļ
0	GLU						0.00		8	ı
C	GLU	_	_	-12.27			0.00	_	6	
0	GLU			-12.20			_			_
N	ILE	B	_				0.00		- 18	
		_	_	-11.40			0.00	_	17	_
CA		B	_	-10.330				-	6	
CB		B		-9.003	25.449	_	0.00		6	4
C_	ILE	B	_	-7.980	25.028		0.00		6	┙
C	ILE	↓B	9	-8,425	25,204		0.00	0.00	6	┙
C	ILE	↓ <u>B</u>	9	-8.612	26,358	8.239	0.00	0.00	6	1
C	ILE	<u> B</u>	19	-10,771	24.645	12.212	0.00	0.00	6	٦
0	ILE	B	9	-10.993	25,660	12.864	0.00		8	٦
N	THR	В	9	-10.950	23.422	12.698	0,00		7	٦
CA	THR	B	9	-11.365		14.070	0.00		6	٦
CB	THR	В	9	-12.591	22,241	14.128	0.00	0.00	6	7
0	THR	В	9	-12,229		13.563	0.00		8	1
Ċ	THR	В	9	-13.772		13.365	0.00	0.00	6	٦.
C	THR	В	9	-10.245		14.854	0.00	0.00	6	1
ō	THR	В	9	-9,318	21.938	14.274	0.00	0.00	8	┨
N	GLU	B	9	-10.342		16.180	0.00	1	7	┪
CA	GLU	В	9	-9.350	21.894	17.050	0.00	0.00	6	1
CB		В	9	-9.745	22,075	18.517		0.00		1
C	GLU	В	9	-8.854	21.362		0.00	0.00	6	4
Č	GLU	В	9	-8.091	22.295	19.515	0.00	0.00	_	4
ŏ	GLU	В	9			20.431	0.00	0.00	16	1
ŏ			9	-6.877	22,071	20.630	0.00	0.00	8	-
c	GLU	B	_	-8.696	23.252	20,959	0.00	0.00	8	4
	CLU	B	9	-9.159	20.418	16.722	0.00	0.00	16	4
Ö.	GLU	B	9	-8.050	19.886	16.829	0.00	0.00	8	1
N	GLU	B	9	-10,204	19,729	16.283	0.00	0.00	7	1
CA	GLU	B	9	-10.171	18.345	15,864	0.00	0.00	6	1
CB	GLU	B	9	-11.575	17.732	15,975	0.00	0.00	6	1
C	GLU	B	9	-11.800	16.947	17.254	0.00	0.00	6	1
C	GLU	В	9	-13.188	17.128	17.834	0.00	0.00	6]
0	GLU	B	9	-14.097	16.358	17.458	0.00	0.00	8	1
0	GLU	В	9	-13.370	18,034	18.674	0.00	0.00	8	1
С	GLU	В	9	-9.670	18.170	14.432	0.00	0.00	6	1
0	GLU	В	9_	-9.491	17.043	13.964	0.00	0.00	8	1
N	ASN	В	9	-9.451	19.258	13,708	0.00	0.00	7	1
CA	ASN	В	9	-8.967	19.250	12,345	0.00	0.00	6	ı
CB	ASN	В	9	-9.751	20,278	11.509	0.00	0.00	6	1
č	ASN	В	9	-10.403	19.694	10.279	0.00			l
ŏ_	ASN	В	9					0.00	6	1
N			_	-10.214	18.522	9.952	0.00	0.00	8	
	ASN	B	9	-11.188	20.509	9,584	0,00	0.00	7	
Š	ASN	В	9	-7.497	19,629	12.209	0.00	0.00	6	
유니	ASN	В	9	-6.767	19.093	11.376	0.00	0.00	8	
N	ALA	В	9	-7.065	20,621	12,974	0.00	0.00	7	
CA	ALA	В	9	-5.737	21.205	12.898	0.00	0.00	6	
CB	ALA	В	9	-5.410	21.900	14.219	0.00	0.00	6	
C	ALA	В	9	4,627	20.235	12,535	0.00	0.00	6	
0	ALA	В	9	-3.912	20.381	11.545	0.00	0.00	8	
N	THR	В	9	-4.462	19.187	13.317	0.00	0.00	7	

CA		_	3 9		18.120		0.0	0.00	
CB		_	3 9	-3.849	17.091	14.293	0.0	0.00	
0	<u> THR</u>		3 9	-3.158	17.483	15.494	10.00	0.00	٦
C	ITHR		3 9	-3.510	15.649				7
C	THR	Ti	3 9		17.455				┪
0	THR	_	_	_	16.879				┪
N	ARG	_	_						4
CA	_	_	_		17.469				4
	ARG	_	_		16.835		0.00		4
CB	_	$\overline{}$	_		16.018		0.00	0.00	4
C_	ARG	_		<u> -5,976</u>	14.996	10.544	0.00	0.00	┙
C	ARG		1 9	-4.989	13.839	10.499	0.00	0.00	
N	ARG	<u> </u>	9	-5.164	13.029	9.300	0.00	0.00	T
CZ	ARG	E	9	-4.248	12.221	8.785	0.00		7
N	ARG	E	9	-3.058	12.093		0.00		7
N	ARG	B	$\overline{}$	-4.525	11.530	7.686	0.00		+
C	ARG	Į B	_	-4.224		8.512			†
ŏ	1				17.795		0.00	_	+
	ARG	13	_	-4.283	17.365	7.356	0.00		4
N	ILE	Ļ₿	_	-4.106	19.091	8.777	0.00	0.00	ᆚ
CA	ILE	↓B	11	-3.917	20.072	7.716	10.00	0.00	T
CB	ILE	B	1	4.981	21.183	7.700	0.00	0.00	Ι
C	ILE	В	1	-4.898	21.961	6.389	0.00		T
C	ILE	В	1	-6.399	20,638	7,890	0.00		_
С	ILE	В	1	-7.341	21.612	8.564			+
c	ILE	В	1				0.00		+
ö		_	_	-2.543	20,728	7.839	0.00		4
	ILE	₽	1	-2.204	21.247	8.904	0.00	_	4
N_	GLY	Į₽	 1 .	-1.772	20.711	6,756	0.00	0.00	Ľ
CA	GLY	Į B	11	-0.455	21.336	6.771	0.00	0.00	Ш
<u>c</u>	GLY	B	11	-0.164	22.114	5.493	0.00	0.00	$\mathbf{I}_{\mathbf{I}}$
0	GLY	<u>B</u>	1	-1.084	22,519	4.781	0.00		Ţ
N	ALA	B	1	1.123	22.287	5.193	0.00	0.00	1
CA	ALA	В	1	1.544	23.043	4.025	0.00	0.00	1
CB	ALA	В	ĺ	1.703	24.508	4.437			_
C	ALA	В	Î				0.00	0.00	49
			_	2.845	22.569	3.390	0.00	0.00	Į.
0	ALA	B	11	3.731	21.988	4.008	0.00	0.00	Į.
<u>N</u> _	ALA	B	11	2.964	22.834	2.093	0.00	0.00	Ľ
CA	ALA	В	1	4.129	22.478	1.294	0.00	0.00	Ŀ
CB	ALA	B	11	3.955	21.139	0.604	0.00	0.00	16
c_{\perp}	ALA	B	1	4.359	23.608	0.290	0.00	0.00	E
0	ALA	B	1	3.925	23.556	-0.858	0.00	0.00	8
N	ILE	B	1	4.901	24.712	0.799	0.00	0.00	7
CA	ILE	В	1	5.111	25.917	0.008	0.00	0.00	Ė
СВ	ILE	В	1	4.382	27.134	0.609			7
c l	ILE	В	î	4.641	28.386		0.00	0,00	١
		В				-0.218	0.00	0.00	16
ဌ	ILE		1	2.875	26.885	0.727	0.00	0.00	6
<u>C</u>	ILE .	В	1	2.201	27.727	1.789	0.00	0.00	6
<u>c </u>	ILE	В	1	6.599	26.245	-0.103	0.00	0.00	6
0	ILE	В	1	7,283	26.357	0.912	0.00	0.00	8
И	GLY	В	1	7.071	26.480	-1.321	0.00	0.00	7
CA	GLY.	В	1	8.464	26.805	-1.546	0.00	0.00	6
cП	GLY	В	ı.	8.689	28.092	-2.326	0.00	0.00	6
	GLY	В	1	7.803	28,887	-2.619	0.00	0.00	8
	SER	В	î	9.955	28.293				
- 1	SER		_			-2.663	0.00	0.00	7
		B	1	10,463	29.437	-3,400	0.00	0.00	6
	SER	<u>B</u>	1	10.521	30.675	-2.511	0.00	0.00	6
	SER	<u>B</u>	1	10.955	31.817	-3.224	0.00	0,00	8
	SER	В	1	11.864	29.074	-3,895	0.00	0.00	6
	SER	В	1	12.571	28.343	-3.198	0.00	0.00	8
1	GLY	В	īI	12.255		-5.062	0.00	0.00	7
	GLY	В	1	13.558		-5.619	0.00		_
	GLY	В	1				_	0.00	6
_			-	14,702		-5.036	0.00	0.00	6
	GLY	B	1	15.795		4.846	0.00	0.00	8
	ILE	В	1	14.500		4.800	0.00	0.00	7
A	LE	В	1	15.555	32,223	4.284	0.00	0.00	6
	ILE	В	1	15.897			0.00		

	wo) 00)/75	343				31	/	110
		_	В	1 16.79	4 34.4	04 4.75	0 0.0		<u></u>	
0		_	B	1 16.49				0.00	_	
			В	1 16.49 1 15.19				00 0.00 00 0.00		
		_	В	1 16.08						1 6
1	_		B	1 13.91				_		
	A GL	_	B B	1 13.50 1 13.74				_		4 19
Ŏ			В	1 13.72			_			4 K
N	_		В	1 13.86				0 0.00		
	A GL		B	1 13.87			_	0 0.00	6	
C			B B	1 15.05 1 15.66						1 5
N		_	_	1 15.28					8	1 18
C	_		В	1 16.39					6	
	BLE	_	_	1 16.43					6	l c
C	LEI		_	1 17.663 1 17.647					6	ا او
Č	LET	_	_	1 18.962					6	CC
C	LET	_	В	16.332	40.11				6	Ĭ
0	LEI		B						8	N
N C	GL)		B 3	H-18-0			$\overline{}$		17	C.
C	GLY		3				0.00		6	C O
Q	GL		Ų	16.245	43.408		0.00	_	8	Č
N C	LEU						0.00		7	
CI							0.00		16	N
С	LEU		_				0.00	_	6	C/ CF
F	LEU	_	_	12.982			0.00		6	C
le c	LEU	_	_	12.272 16,822	41.709	_	0.00		6	ြင
ŏ	LEU		_	17.408	42.358		0.00		8	C
N	ILE	В	$\overline{}$	17.433	40.762		0.00		17	Ö
CA		↓B B	_	18.834	40.428		0.00		6	N
Ç	ILE	B	_	19.264 20.776	39.105 38.921	1.314	0.00		16	L CA
C	ILE	В		18.579	37.928	2,019	0.00	0.00	6	CB C
Ë	ILE	- B	_	18.555	36.654	1.206	0.00	0.00	6	SD
6	ILE	B	_	19.716 20.702	41.575 41.937	1.461	0.00	_	6	CE
N	GLU	_	_	19.338	42.165	2.103 0.332	0.00	0.00	8	0
CA	GLU	_	1	20,048	43.316	-0.209	0.00		6	N
CB	GLU	B	$\frac{1}{1}$	19.511	43.682	-1.590	0.00	0.00	6	CA
Č	GLU	В	li	19.818 19.261	42.650 43.083	-2.666 -4.010	0.00	0.00	6	CB
0	GLU	В	Ţį.	18.715	42.231	4.736	0.00	0.00	8	0
<u> </u>	GLU	B	1	19.370	44.288	4.318	0.00	0.00	8	N
CO	GLU	B	1	19.955 20.977	44.515	0.727	0.00		6	C
N	GLU		1	18.755	45.118 44.849	1.050	0.00	0.00	8 7	O
CA	GLU	В	1	18,559	45.961	2.107	0.00	0.00	6	CA
CB	GLU	B	1	17.090	46.078	2.520	0.00	0.00	6	C
C C	GLU	B	1	16.822	47,239	3.466	0.00	0.00	6	0
Ö.	GLU	В	i	15.373 14.526	47.324 47.683	3.901 3.058	0.00	0.00	8	N CA
0	GLU	В	1	15.081	47.032	5.079	0.00	0.00	8	CA C
듯	GLU	В	1	19.422	45.816	3.358	0.00	0.00	6	Ö
O N	GLU ASN	B	1	20,204 19,302	46,703	3.698	0.00	0.00	8	И
CA	ASN	В	1	20.071	44.673 44.377	4.026 5.223	0.00	0.00 0.00	7 6	CA
СВ	ASN	В	۲	19.640	43.034	5.823			6	CA CB
c 0	ASN	В	1	18.299	43.116	6.525	0.00	0.00	6	С
<u>~ 1</u>	ASN	В.	1	18.180	<u>43.719 </u>	7.591	0.00	0.00 1	8	C

l i	V.	AS	N	В	1	17.28	20	42.5	01	5.940	_	10	00	100	- T	_
آ ا		AŞ		В	ī	21.57		44.3				_	00	_		_
	5	AS		В	ì	22.33		44.8	_	4.958			00			9
		HI		В	i	22.00		43.8		5.80	_	_	00	_		8
	A	HI	_	В	1	23.43		43.8		3.81			<u>00</u>	_	_	7
	В	HIS		В	î	23.81			_	3.503		_	<u>00</u>	_		9
Ġ		HIS		B	1	25.31		43.0		2.295			00	0.0	_	6
ď		HIS		В				42.8		2.216	_	_	00	0.0		6
N N		HIS		В	1	26,22		43.3		1.343			00			6
	E	HIS		B B	1	26.03		42.1	_	3.151		0.	_	0.0		7
N	ı	HIS		В	1	27.31		42.19		2.852		0.9		0.0		6
C		HIS		ı	1	27.45		42.9		1.755		0.0		0.0	0	7
	_		_	<u>B</u>	1	23.88	_	45.30		3.321		0.0	_	0.0	0	6
Τô		HIS	_	В	1	24.89		45,71	_	3.898	_	0.0	00	0.0	0 1	8
X		TH		В	ᆠ	23.09		46.10		2.620		0.0	90	0.0	9 1	7
C		TH	-	則	1	23.383		47.52	_	2.448	_	Q.C	0	0.0		6
Š	_	TH		<u>B</u>	1	22.322		48.19		1.562	_	0.0	0	0.00	2 6	6
ြင့	4	TH		B	1	22.31		47.53		0.288		0,0	0	0.00) [8	3
FČ		THI		В	1	22.621	_	<u>49.67</u>		1.345	_	0,0	0	0.00) 6	3
Č	-	TH		<u>B</u>	1	23.500		<u>48.22</u>	8	3.792		0.0	0	0.00) [6	3
10	4	THI	_	B.	1	24.478	1	48,94	2	4.033		0.0	Ö	0.00) 8	3
N	4	SER	_	<u>B</u>	1	22.553		47.99	4	4.695		0.0	0	0.00		
LC/		SER		В	1	22.625	1	48.54	0	6.047		0.0	0	0.00		;
LC1		SER		В	1	21,426	Ш	48,06	8	6.870		0.0		0.00		
lo.		SER		<u>B</u>	ı	20.215		48.45	6	6.236		0.0	οl	0.00		
C		SER		3	1_	23.939	1	48,15		6.711		0.0		0.00	_	
၂၀	_	SER	_	3.1	1	24.722	1	49.01	ÐΤ	7.100	7	0.0	_	0.00	_	-
N		LEU			1	24.244	1	46.86	3 [6.777	T	0.0		0.00		
CA	_	LEU		<u>1</u>	Ц	25.484	4	16.36	3 T	7.350	Ī	0,0	01	0.00	6	_
CE	_	<u>LEU</u>		3	L	25.569	1	14.84		7.172	Т	0.0		0.00	6	
C		LEŲ		1	L	26,914	<u>ب</u> ــــــــــــــــــــــــــــــــــــ	4.158	3	7.405		0.0	эΤ	0.00	6	_
LC.		LEU		1	Ц	27.242	1	4.06		8.887	I	0.00		0.00	6	_
Ç		<u>LEU</u>		Щ	Ц	26.922	4	2,773	ıΙ	6.770	Т	0.00	_	0.00	6	_
C		LEŲ			Ц	26.720	14	7.037	1	5.775	\perp	0,00		0.00	6	_
0		LEU			Ц	27.612	14	7.426	1	7.535	\mathbf{I}	0.00	π	0.00	8	_
N		MET			_	26.808	14	7.199	113	5.461		0.00		0.00	7	_
CA		MET		_	_	27.955	14	7.832	4	.826		0.00	П	0.00	6	
CB		MET			_	<u> 27.840</u>	4	7.751	نا	3.301	1	0.00	П	0.00	6	_
IC.		MET		_	_	<u>28.732</u>		6,686		.680	1	0.00	П	0,00	6	
SD	_	MET	_		_	<u> 28.571</u>		6.613		.886	L	0.00		0,00		
CE	_	<u>ÆT</u>	∤ ₿	$\overline{}$	_	<u> 29.873</u>		<u>7,738</u>		.383		0.00	L	0.00	6	
C	_	<u>ÆT</u>	Į₿	11		<u> 28.141</u>		9.285	15	.246	10	0.00		0.00	6	1
10		ÆT.	₽	11		29.272	14	<u>9.742</u>	15	.426	10	0.00		0.00	8]
N.		SN	B	11		27.047	5	0.023	5	.396	1	0.00	To	0.00	7	1
CA		SN	B	11		27.099	5	1,420	15	.779	10	0.00	I	0.00	6]
CB		SN	B	11		<u> 25.961</u>		2,184	5	.088	10	0.00	C	.00	6	1
<u> C</u>		<u>sn</u>	В	11		26.056	5	2.193	13	.581	10	0.00	Ιo	.00	6]
0		SN	B	11		25.032	5:	2,318	2	.904	10	0.00	Lo	.00	8	1
N		SN	B	11		27.260	5:	2.066	3	.037		00.0	0	.00	7	Ì
C_		SN	В	11		26.985		1,668	7	277	C	.00	Lo	.00	6	l
0	_	SN	В	11		7.143	52	.824	7	685	C	.00	0	.00	8	l
N		LY	В	11		6.616	50	.669	8.	072	0	.00	0	.00	7	l
CA	_	LY	В	1		6.330	50	.906	9.	474	0	.00	0	.00	6	l
C		LY	В	1		6.852	49	.890	10	0.464	0	.00	0	.00	6	ł
0		LY	В.	1	12	6.807	50	.157	1	1.671	0	.00		.00	8	ĺ
N		LY	В	L.	12	7.346	48	.745	10	0.006		.00		.00	7	
CA		LY	В	1	12	7.819	47	.709	10	0.932	_	.00		.00	6	
C	_	LY	В	1	12	6.629	46	.810	_	.262		00		00	6	
0	G	LX	В	la.	2	5.515	47	.064		.801		00		00	8	
N	P	30	В	1	2	6.840		.791		.085		00	_	00	7	
C		30	В	ī	2	8.172	45	.431	_	.638		00		00	6	
CA	P	₹0	В	1		5.828		812		.416	_	00	_	00	6	
CB	P	30	В	1		6.606		681		.095		00	0.		6	
C	PF	O.	В	1		7.872		292		.571	_	00		00	6	
C	PF	101	В	ı	2	4.670				.281	_	00	_	_	6	
												-4.	ν,		لعن	

0	PRO	В	1	23.627	44.581	13,297	0.00	0.00	8
N	ARG	В	1	24.753	46.392	13.949	0.00	0.00	7
CA	ARG	В	1	23.680	46,909	14.785	0.00	0.00	6
					47.994	15.724	0.00	0.00	6
CB	ARG	B.	1	24.220					
لـعا	ARG	В	1	25.053	47.444	16.872	0.00	0.00	6
C	ARG	В	1	24.755	48,182	18.166	0.00	0.00	6
N	ARG	В	ì	25.893	48.199	19.076	0.00	0.00	7
		В	î	26.353	49.285	19.690	0.00	0.00	6
CZ	ARG	_						0.00	7
N	ARG	В	1	25,780	50.466	19.497	0.00		_
N	ARG	В	1	27.395	49.192	20.505	0.00	0.00	7
С	ARG	В	ı	22,514	47.460	13.977	0.00	0.00	6
ŏ	ARG	В	ì	21.412	47.635	14.500	0,00	0.00	8
			_		47.733	12.695	0.00	0.00	7
N	LYS	В	1	22.730					_
CA	LYS	B	1	21.703	48,240	11.804	0.00	0.00	6
CB	LYS	В	l l	22.295	49.222	10.789	0.00	0,00	6
С	LYS	В	1	22.827	50,498	11.425	0.00	0.00	6
Č	LYS	В	1	22.565	51.706	10.539	0.00	0.00	6_
					52.748	11.258	0.00	0.00	6
CE	LYS	В	1	21.724					7
NZ	LYS	В	1	20.929	53,572	10,304	0.00	0.00	$\overline{}$
C	LYS	В	1	20.981	47,102	11.086	0.00	0.00	6
0.	LYS	В	1	20.040	47.343	10.330	0.00	0.00	8
N	ILE	В	1	21.424	45.867	11.305	0.00	0.00	7
			1	20.767	44.706	10.731	0.00	0.00	6
CA	ILE	В	_				0.00	0.00	6
CB	ILE	В	1	21.578	43.404	10.856			
C	ILE	В	1	20.775	42,219	10.324	0.00	0.00	6
С	ILE	В	1	22.910	43.525	10.113	0.00	0.00	6
C_	ILE	В	1	23,835	42.340	10.277	0.00	0.00	6
		B	1	19.419	44.512	11,427	0.00	0.00	6
C_	ILE						0.00	0.00	8
0	ILE	В	1_	19.349	44.325	12.639			7
N	SER	LB_	1	18.355	44.552	10.638	0.00	0.00	
CA	SER	B	1	17.017	44.340	11.172	0.00	0.00	6
CB	SER	В	1	16.019	44,254	10.011	0.00	0.00	6
		В	î	14.890	43.482	10.380	0.00	0.00	8
9	SER					11.978	0.00	0.00	6
C	SER	В	1	16.975	43.051		$\overline{}$		8
0	SER	B	L.	17.404	41.993	11.516	0.00	0.00	
N_	PRO	B	l_l_	16.275	43,076	13.110	0.00	0.00	7
C	PRO	В	ı	15,680	44,296	13.712	0.00	0.00	6
CA	PRO	В	ī	16.053	41.902	13,934	0.00	0.00	6
			_			15.176	0,00	0.00	6
CB	PRO	<u>B</u>	1	15.352	42,436			0.00	6
C_	PRO	B	1	14.769	43,742	14.773	0.00		_
C	PRO	B	1	15,225	40.829	13.247	0.00	0.00	6
0	PRO	В	1	15,257	39.658	13.634	0.00	0.00	8
N	PHE	В	1	14.478	41.172	12.205	0.00	0.00_	7
		_	_		40,219	11,409	0.00	0.00	6
CA	PHE	B	1	13.730					$\overline{}$
CB	PHE	B	11	12.382	40.825	10,994	0.00	0.00	6
C	PHE	В	1	11.595	41.335	12.171	0.00	0.00	6
C	PHE	В	1	11,377	42.693	12,336	0.00	0.00	6
Č	PHE	В	ī	11.086	40.459	13.114	0.00	0.00	6
		В	î	10.663	43.168	13.420	0.00	0.00	6
CE	PHE	_	_				0.00	0.00	6
CE	PHE	В	1	10.372	40.928	14.200			
CZ	PHE	B	1	10.161	42.284	14.352	0.00	0.00	6
С	PHE	В	1	14.491	39,718	10.189	0.00	0.00	6
o_	PHE	В	1	13,898	38.982	9.391	0.00	0.00	8
	PHE	В	1	15,790	39.978	10.062	0.00	0.00	7
N		_	_				_	0.00	6
CA	PHE	B	11	16.551	39.486	8.923	0.00		_
CB	PHE	B	11	18.074	39.603	9.115	0.00	0.00	6
С	PHE	В	1	18.826	38.959	7.976	0.00	0.00	6
Č	PHE	В	î	18.787	39.507	6.707	0.00	0.00	6
			_		37.789	8.173	0.00	0.00	6
C	PHE	B	11	19.541	1		_	_	_
CE	PHE	↓B	11	19.458	38.912	5.657	0.00	0.00	6
CE	PHE	В	1	20.212	37.189	7.126	0.00	0.00	6
100			$\overline{}$		1 07 750	I C OCE	0.00	0.00	6
	PHE	İΒ	11	20.174	37,752	3.000	0.00	7,44	بعن
CZ	PHE	_	-			5.865 8.545		_	_
	PHE PHE PHE	B B	1 1	16.181 15.623	37.752 38.054 37.836	8.545 7.469	0.00	0.00	6

						0.001	0.00	0.00	7
N	VAL	В	1	16.502	37.077	9.381	0.00	0.00	7
CA	VAL	В	1	16.273	35.671	9.077	0.00	0.00	6
CB	VAL	В	1	16.761	34.775	10.235 9.955	0.00	0.00	6
C	VAL	B	1	16.528	33.300		0.00	0.00	6
Ç.	VAL	В	1	18.237	35.028	10.508 8.695	0.00	0.00	6
C	VAL	픠	1	14.848	35.319			0.00	8
0	VAL.	В	1	14.578	34.863	7.578	0.00	0.00	7
N	PRO	В	1	13.874	35,543	9,572			6
C	PRO	В	1	14.098	36.089	10.939	0.00	0.00	6
CA	PRO	В	1	12.484	35.204	9.343	0.00	0.00	6
CB	PRO	В	1_	11.775	35.569	10.644	0.00		
C	PRO	В	1_	12.827	35.760	11.666	0.00	0.00	6_
C	PRO	В	1	11.804	35.891	8.174	0.00	0.00	6
0	PRO	В	1	10.742	35,457	7.712	0.00	0.00	8 7
N	SER	В	1	12.344	37.001	7.698	0.00	0.00	-
CA	SER	В	1	11.813	37,739	6.572	0.00	0.00	6
CB	SER	В	1	12.157	39.223	6.762	0.00	0.00	8
0	SER	В	1	13.534	39.457	6.544	0.00	0.00	6
C	SER	В	1	12.380	37.276	5.237	0.00	0.00	8
0	SER	В	1	11.814	37,593	4.187	0.00	0.00	7
N	THR	В	1	13.492	36.548	5.255	0.00	0.00	6
CA	THR	В	1	14.119	36.091	4.027	0.00	0.00	
CB	THR	В	1	15,619	36.489	4.031	0.00	0.00	8
Q	THR	B	1	16.241	35.919	5.189	0.00		6
C_	THR	В	1	15.784	37.996	4.056 3.728	0,00	0.00	6
Ç.	THR	В	1	14.063	34.605		0.00	0.00	8
9	THR	B	1	14.106	34.252	4.734	0.00	0.00	7
N	ILE	B	1	14.096	33.738	4.459	0.00	0.00	6
CA	ILE	B	1	14.235	32.307	5.682	0.00	0.00	6
CB	ILE	B	1	14.751	31.537 32.021	5.995	0.00	0.00	6
Ĕ	ILE	B	1	16.167 13.841	31.706	6,894	0.00	0.00	6
Š.	ILE	В	1	14.237	30.867	8.092	0,00	0.00	6
C	ILE	В	1	12.991	31.691	3.849	0.00	0.00	6
Š-	ILE	В	1	11.839	32.013	4.121	0.00	0.00	8
O N	VAL	В	î	13.232	30.753	2.945	0.00	0.00	7
CA	VAL	В	1	12.270	30.056	2.121	0.00	0.00	6
CB	VAL	В	î	13,026	29.000	1.273	0.00	0.00	6
C	VAL	В	î	12.144	27.905	0.709	0.00	0.00	6
Č	VAL	B	î	13.746	29.720	0.133	0.00	0.00	6
Č.	VAL	В	1	11.076	29.441	2.815	0.00	0.00	6
ŏ	VAL	В	î	9.968	29,507	2,257	0.00	0.00	8
N	ASN	В	ī	11.223	28.843	3.991	0.00	0.00	7
CA	ASN	В	ī	10.104	28.184	4.651	0.00	0.00	6
CB	ASN	В	î	10.649	27.054	5.540	0.00	0,00	6
C	ASN	В	î.	11.359	27.603	6.762	0.00	0.00	6
ŏ	ASN	В	1	12,384	28.270	6,633	0.00	0,00	8
N	ASN	В	1	10.778	27.372	7.933	0,00	0.00	7
Ĉ	ASN	В	1	9.195	29,110	5,443	0.00	0.00	6
ō	ASN	В	1	8.200	28.637	6.008	0.00	0.00	8
N	MET	В	1	9.426	30.418	5.435	0.00	0.00	7
CA	MET	В	1	8.615	31,358	6.196	0.00	0.00	6
CB	MET	В	1	9.409	32.622	6.529	0.00	0.00	6
C	MET	В	i	10.438	32,377	7.629	0.00	0.00	6
SD	MET	В	1	9.791	31.455	9.040	0.00	0.00	1
CE	MET	В	1	8.541	32.587	9.643	0.00	0.00	6
C	MET	В	lì	7.251	31.641	5.593	0.00	0.00	6
ŏ	MET	В	î	6.382	32.153	6.317	0.00	0.00	8
	VAL	В	1	6.994	31.286	4.337	0,00	0.00	7
		_			31,471	3.771	0.00	0.00	T6
N	T	B	11	5.661					
N CA	VAL	B	_			2.251	0.00	0.00	6
N CA CB	VAL VAL	В	1	5.563	31.317		0.00	0.00	6
N CA	VAL		1		31.317	2.251			_

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								1	
0	VAL	В	1	3.637	30.717	4.856		0.00	8
N .	ALA	В	1	5.264	29,202	4.561		0.00	7
	ALA	В	1	4.540	28.115	5.214		0.00	
CB	ALA	В	1	5.166	26,767	4.897		0.00	6
C	ALA	В	Ц	4.490	28,344	6,723		0.00	8
0	ALA	В	1	3.491	28.053	7.378	0.00	0.00	7
N	GLY	В	1	5.544	28.940	7.275	0.00	0.00	_
CA	GLY	В	1	5.559	29,332	8.678	0.00	0.00	6
C	GLY	В	1	4.428	30.316	8.970	0.00	0.00	8_
0	GLY	В	1	3,660	30.100	9.905	0.00	0,00	7
N	HIS	В	1	4.297	31.369	8.172	0,00	0.00	6
CA	HIS	В	1	3,265	32.372	8.362	0.00	0.00	6
CB	HIS	В	1	3,500	33.598	7.458	0.00	0.00_	6
C	HIS	В	1	4.431	34.570	8.124	0.00	0.00	6
C	HIS	B	1	4.275	35.318	9.242		0.00	7
N	HIS	В	1	5.706	34.815	7.668	0.00	0.00	6
CE	HIS	В	1	6.292	35,692	8.467	0.00	0.00	7
N	HIS	В	ı	5.445	36.011	9.430	0.00	0.00_	6
C	HIS	В	1	1.848	31.858	8.173	0.00	0.00	8
0	HIS	B	11	0.973	32.218	8.967	0.00		7
N	LEU	B	1	1.607	31.030	7.163	0.00	0.00	6
CA	LEU	В	1	0.266	30.503	6.932	0.00	0.00_	6
CB	LEU	B	1	0.168_	29.849	5.555	0.00	0.00	6
C	LEU	B	1	-0.056	30.793	4.370	0.00	0.00	6
C	LEU	B	11	-0.048	30.022	3.059	0.00	0.00	6
C	LEU	B	11	-1.358	31,569	4.510	0.00	0.00_	6
C	LEU	<u> </u>	11	-0.166	29.542	8.032	0.00	0.00	8
0_	LEU	↓B	11	-1.310	29,610	8.492 8.475	0.00	0.00	7
N.	THR	₽.	1	0.730	28.664	9.532	0.00	0.00	6
CA	THR	B	1	0,426	27.711	9.914	0.00	0.00	6
CB	THR	₽.	 	1.631	26.830 27.667	10.197	0.00	0.00	8
10	THR	₽ B	1	2,757	25.855	8.809	0.00	0.00	6_
<u>c</u>	THR	₽ B	ļ į	1.992	28.425	10.792	0.00	0,00	6
Š.	THR	+B	 }	-0.059 -1.095	28.062	11.350	0.00	0.00	8
10	THR	B	+}-	0.684	29.432	11.241	0.00	0.00	7
N	ILE	+₽ B	+	0.294	30.233	12.394	0.00	0.00	6
CA	ILE	B	1	1.322	31,337	12,704	0.00	0.00	6
CB	ILE	В	lî	0:901	32,152	13.919	0.00	0.00	6
C	ILE	B	tî	2.717	30.744	12.924	0.00	0.00	6
Č	ILE	В	_	3.835	31.734		0.00	0.00	16
C	ILE	B	_	-1.064	30.889		0.00	0.00	16
Ö	ILE	B	$\overline{}$	-1.985	30,755		0.00	0.00	8
N	MET	_		-1.198	31,602		0.00	0.00	17
CA	ME			-2,421	32,291	10.686	0.00		16
CB			_	-2,277	32.883		0.00		16
C	ME		_	-1.466	34.169		0.00		6
SD			_	-1.371	34.872	7.581	0.00	_	11
CE			_	-3,003	35,600		0.00		6
C	ME			-3.674	31,430		0.00		16
0	ME		3 1	-4.699	31.904		0.00		18
N	TYF			-3.646	30.208				17
CA			3 1	-4.813	29,343				6
CE			3 1	-4.979	28.70		0.00		16
c	TY		3 1	-5.493	29.74		0.00		6
C	TYF		3 1	-4.612	30.49		0.00		6
CE		₹ I	3] 1	-5.080			0.00		6
C	TYI	_	_	-6.854			0.00		- 6
CE			3 J	-7.326			0.00		16
CZ			3]	-6.435			0.00		- 6
Ö	TY		3 [3		32.62		0.00		18
Č	TY		в						16
ō	TY		B I						- 8
N	GL	_	B [:	-3.724	28.15	5 12,060	0.0	0.00	7
					-				

							1		
CA	GLY	В	1	-3.602	27.108	13.063	0.00	0.00	6
C	GLY	В	1	-3.408	25.731	12.443	0.00	0.00	5
o I	GLY	В	1	-3.950	24,744	12.947	0.00	0.00	8
N	LEU	В	1	-2.623	25.649	11.371	0.00	0.00	7
CA	LEU	В	1	-2.343	24.371	10,718	0.00	0.00	6
CB	LEU	В	1	-1.965	24,563	9.253	0.00	0.00	5
C	LEU	В	1	-2.858	25.463	8.399	0.00	0,00	6
c	LEU	В	1	-2.224	25,720	7.038	0.00	0.00	6
č	LEU	В	1	-4.246	24.864	8.225	0.00	0.00	6
č	LEU	В	1	-1.230	23.648	11.474	0.00	0.00	6
ŏ	LEU	B	ī	-0.104	24.136	11.573	0.00	0.00	8
N	ARG	В	î	-1.566	22.508	12.067	0.00	0.00	7
	ARG	В	î	-0.631	21.762	12.899	0.00	0.00	6
CA	ARG	В	1_	-1.276	21.448	14.255	0.00	0.00	6
CB		_		-2.011	22.615	14.892	0.00	0.00	6
<u>c</u> _	ARG	B	ļļ.		22.647	16.405	0.00	0.00	6
C_	ARG	B	 	-1.894	21.346	17.010	0.00	0.00	7
N	ARG	B	1	-2.138		17.925	0.00	0.00	6
CZ	ARG	B	1	-1.376	20,762		0.00	0.00	7
N_	ARG	B	1	-0.282	21.358	18.380	0.00	0.00	7
Ŋ	ARG	B	11	-1.706	19.564	18.391	0.00	0.00	6
С	ARG	B	11	-0.131	20.491	12,228	0.00	0,00	8
0_	ARG	B	11	0.615	19,715	12,826	_	0.00	7
N	GLY	Į₿.	1	-0.521	20.281	10.975	0.00		6
CA	GLY	B	11	-0.085	19.111	10.221	0.00	0.00	6
С	GLY	B	1	1.312	19.349	9.649_	0.00	0.00	8
0_	GLY	B	11	1.986	20.324	9.981	0.00	0.00	17
N.	PRO	B	11	1.752	18,443	8,780	0.00	0.00	
C	PRO	B	11	0.981	17.259	8.332	0.00	0.00	6
CA	PRO	<u> B</u>	11	3.060	18,520	8.166	0.00	0.00	6
CB	PRO	B	11	3.080	17.388	7.154	0.00	0.00_	6
c_{-}	PRO	В	1	1.910	16.524	7.418	0.00	0.00	6
С	PRO	В	1	3.326	19.856	7.488	0.00	0.00	6
ि	PRO	B	1	2.459	20,415	6.817	0.00	0.00	18
N	SER	В	1	4.550	20.358	7.629	0.00	0,00	17
CA	SER	lв	1	4.948	21.620	7.023	0.00	0.00	16
CB	_	В	1	5.030	22.706	8.103	0.00	0.00	16
0	SER	В	1	5.316	23.967	7.525	0.00		8
C	SER	В	1	6.298	21.513	6.329	0.00	0.00	6
0	SER	В	1	7.318	21,410	7.016	0,00	0.00	- 8
N	ILE	В	_	6.332	21.523	4.995	0.00		17
CA		В	_	7.607	21,466	4.297	0.00	0.00	6
CB	_	В	_	7.940	20.151	3.579	0.00	0.00	6
C	ILE	B	_	8,364	19.067	4.559	0.00	0.00	6
č	ILE	B		6.785	19.678	2.691	0.00	0.00	6
č	ILE	B	_	7.240	18,715	1.610	0.00	0.00	6
C	ILE	B		7.707	22.588	3.259	0,00		6
16	ILE	T B		6.736	23.244	2,899	0.00		8
_	SER	_		8.933	22.791	2.791	0.00		7
N				9,240	23.780		0.00		6
CA		_	_	9.758	25.085		0.00		6
Č		_	_	8.801	25,734		0.00		8
0	SER		_				0.00		6
F	SER	_		10,302			0.00		8
10	SER		$\overline{}$		22.967		0.00		7
N	ILE	→ <u>!</u>		9.931			0.00	_	6
CA		- ↓₹		10.914			0.00		6
C		-	_				0.00		6
C	ILE	1	_				_	-	6
C	ILE	_ 1	3 1		20.152		0.00		_
С	ILE	J			18.996		0.00		6
C	ILE	Ш	<u>3</u>				0.00		6
0	ILE		<u>3</u>	10.696			0.00		8
N	ALA	\Box	3 :	12.768			0.0		7
C	A ALA		<u>B</u>				0.0		6
C		_		14.29	25.58	3 -2,105	0.0	0.00	16

		_			0. 100	4 200	0.00	0.00	_
잌	ALA	픠	귀	14.257	24,163	·4.180	0.00	0.00	8
의	ALA	В	1	15.430	23,831	4.015	0.00	0.00	7
N	THR	В	1	13.619	24.005	-5.336		0.00	6
CA	THR	В	1	14.295	23,435	-6.499	0.00	0.00	6
CB	THR	В	1	13.706	22.064	-6.879	0.00		
0	THR	В	1	12.282	22.111	-6.725	0.00	0.00	8 6
<u>C</u>	THR	В	ᅬ	14.265	20.963	-5.992	0.00	0.00	_
C	THR	В	1	14.225	24.390	-7.684	0.00	0.00	6
0	THR	В	1	13,789	24.006	-8.770	0.00	0.00	8
N	ALA	В	1	14.611	25.645	-7.453	0.00	0.00	7
CA	ALA	В	1	14.614	26,639	-8.530	0.00	0.00	6
CB	ALA	В	1	15.804	26.381	-9.445	0.00	0.00	6
C	ALA	В	1	13.303	26,601	-9.297	0.00	0.00	6
0	ALA	В	1	12.228	26,596	-8.690	0.00	0.00	8
N	CYS	В	ı	13.347	26.441	-10.615	0.00	0.00	7
CA	CYS	В	1	12.193	26,376	-11.482	0.00	0.00	6
ÇВ	CYS	В	1	12.628	26.275	-12.957	0.00	0.00	6
SG	CYS	В	1_	14,176	27.109	-13.348	0.00	0.00	1
C	CYS	В	1	11,226	25.225	-11.252	0.00	0.00	6
0	CYS	В	1	10.137	25.253	-11,841	0.00	0.00	8.
Z	THR	В	1	11.590	24.199	-10.504	0.00	0.00	7
CA	THR	В	1	10,719_	23,048	-10.288	0.00	0.00	6
CB	THR	В	1	11.539	21.749	-10.439	0.00	0.00	6
0	THR	B	1	12.396	21.886	-11.585	0.00	0.00	8
<u></u>	THR	B	1	10.650	20.535	·10.627	0.00	0.00	6
C	THR	B	1	10.032	23.098	-8.938	0.00	0.00	6
0	THR	В	1	9.161	22,283	-8.628	0.00	0.00	8
N	SER	B	1	10.337	24.113	-8.140	0.00	0.00	7
CA	SER	B	1	9.812	24.266	-6.795	0.00	0.00	6
CB	SER	B	1	10.152	25.653	-6.239	0.00	0.00	6
0	SER	В	1	11.536	25.806	-6.014	0.00	0.00	8
C_	SER	B	1	8.307	24,060	-6,707	0.00	0.00	6
0	SER	B	1	7.817	23,238	-5.928	0.00	0.00	8
N	GLY	B	1	7.553	24.825	-7.490	0.00	0.00	7
CA	GLY	B	11	6.101	24.743	-7.493	0.00	0,00	6
<u> C</u> _	GLY	B	1	5.595	23.335	-7.766	0.00	0,00	6
0	GLY	B	1	4.639	22.887	-7.132	0.00	0.00	7
N_	VAL	ĮB_	1	6,179	22.652	-8.744	0.00	0.00	6
CA	VAL	IB.	1	5.760	21.301	-9.104	0.00		_
CB	VAL	ĮB.	1	6,323	20.917	-10.485	0,00	0.00	6
C_	VAL	B	1	6.367	19.415	-10.713	0.00	0.00	6
C.	VAL	B	1	5.496	21.585	-11,579	0.00	0.00	6
C	VAL	₽	1	6.160	20.281	-8.048	0.00	0.00	8
0	VAL	IB.	1	5.406	19.338	-7.792	0.00	0.00_	7
N	HIS	ĮB.	1	7.331	20.442	-7.442	0.00		6
CA	HIS	B	1	7.801	19.513	-6.424	0.00	0.00	6
CB	HIS	B	1	9.283	19,738	6.120	0.00		6
<u> </u> C_	HIS	Į <u>B</u>	1	10.227	19.073	-7.069	0.00	0.00	6
C_	HIS	B	1-	10.065	18.056	-7.947	0.00		7
N_	HIS	B	1	11.548	19.464	-7.180	0.00	0.00	6
CE	HIS	B	1	12.149	18.717	-8,085	0.00	0.00	7
N	HIS	₩.	1.	11.273	17.856	-8.571	0.00		6
<u></u>	HIS	B	11	6.988	19.628	-5.138	0.00	0.00	$\overline{}$
0	HIS	B	11	6.696	18.622	4.489	0.00	0.00	7
N_	ASN	IB.	11	6.653	20.858	4.760	0.00	0.00	_
CA	ASN	↓B	1	5.874	21.100	-3.551	0.00	0.00	6
CB	ASN	B	1	5.824	22,595	-3.249	0.00	0.00	6
С	ASN	B	1	7.045	23,130	-2.535	0.00	0.00	6
0	ASN	<u> </u>	11.	7.850	23.876	-3,102	0.00	0.00	8
N	ASN	B	11	7.210	22,772	1.268	0.00	0.00	7
C	ASN	B	11	4,472	20,516	-3.684	0.00	0.00	6
		10	1 •	1 4 000	19.748	-2.832	0.00	0.00_	8
Ŏ	LASN	LB.	11	4.023					
	ILE	B	1	3.796 2.461	20.808	-4.791 -5.057	0.00	0.00	6

СВ	ILE	В	1	1.889	20.822	-6.382	0.00	0.00	6
C	ILE	В	1	0.616	20,091	-6.787	0,00	0.00	6
c	ILE	В	1	1.623	22,325	-6.258	0.00	0.00	6
č	ILE	В	1	1.353	23.023	-7.570	0.00	0.00	6
č	ILE	В	î	2,446	18.758	-5.061	0.00	0.00	6
ŏ	ILE	В	$\hat{1}$	1.580	18.154	-4.427	0.00	0.00	8
N	GLY	В	î	3.384	18.133	-5.762	0.00	0.00	7
CA	GLY	В	î	3.472	16.684	-5.812	0.00	0.00	6
C	GLY	В	î	3.809	16.032	-4.479	0.00	0.00	6
		В	1	3.271	14.959	4.179	0.00	0.00	8
0	GLY	В	$\overline{}$	4.669	16.644	-3.659	0.00	0.00	7
N	HIS	_	井	5.026	16.030	-2.374	0.00	0.00	6
CA	HIS	В	+		16.407	-1.924	0.00	0.00	6
CB	HIS	В	1	6.437			0.00	0.00	6
C_	HIS	В	1	7.414	15.486	·2.612	0.00	0.00_	6
C	HIS	В	1	7.712	14.188	-2.381	0.00	0.00	7
N_	HIS	В	1	8.157	15.865	-3.705			6
CE	HIS	В	1	8.893	14.846	4,108	0.00	0.00	7
N_	HIS	В	1	8.641	13.816	-3.321	0.00	0.00	_
C_	HIS	B	1	3.927	16.250	-1.352	0.00	0.00	6
0	HIS	В	1	3.717	15.434	-0.451	0.00	0.00	8
N	ALA	В	L	3.120	17.291	-1.551_	0.00	0.00	7
CA	ALA	В	ı	1.950	17.523	-0.711	0.00	0.00	6
CB	ALA	В	1	1.309	18.858	-1.039	0.00	0.00	6
C	ALA	В	1	0.957	16.381	-0.957	0.00	0.00	6
0	ALA	В	1	0.366	15.835	-0,027	0.00	0.00	8
N	ALA	В	1	0.830	15.965	-2.216	0.00	0.00	7
CA	ALA	В	1	-0.014	14.846	-2.605	0.00	0.00	6
CB	ALA	B	1	-0.214	14.809	-4.111	0.00	0.00	6
C	ALA	В	1	0.554	13.522	-2.103	0.00	0.00	6
0	ALA	В	ll.	-0,207	12.678	-1.626	0.00	0.00	8
N	ARG	В	1	1.874	13.351	-2.173	0.00	0.00	7
CA	ARG	В	1	2.492	12,133	-1.648	0.00	0.00	6
CB	ARG	В	1	3.989	12.067	-1.913	0.00	0.00	6_
C	ARG	В	1	4.401	11.956	-3.365	0.00	0.00	6
C	ARG	В	1	4.151	10.572	-3.938	0.00	0.00	6
N	ARG	В	1	4.957	10,308	-5.126	0.00	0.00	7
CZ	ARG	В	1	4.522	10.309	-6.379	0.00	0.00	6
N	ARG	В	1	3.249	10.571	-6,653	0.00	0.00	7
N	ARG	В	1	5.356	10.051	-7.383	0.00	0.00	7
C	ARG	В	1	2.214	12,059	-0.146	0.00	0.00	16
0	ARG	В	1	1.649	11.071	0.322	0.00	0.00	18
N	ILE	В	1	2.447	13,162	0.571	0.00	0.00	17
CA	ILE	В.,	1	2.099	13,235	1.987	0.00	0.00	6
CB	ILE	B.	1	2.372	14,616	2.602	0.00	0.00	6
C	ILE	B	1	1.809	14,724	4.014	0.00	0.00	6
C	ILE	В	l	3.875	14.919	2.636	0.00	0.00	6
C	ILE	В	1	4.196	16.360	2.989	0.00	0.00	6
C	ILE	В	ı	0.643	12.838	2.206	0.00	0.00	6
0	ILE	В	1	0.373	11.945	3.013	0.00	0.00	8
N	ILE	В	1	-0.292	13,468	1.498	0.00	0.00	7
CA	ILE	В	1	-1.708	13.143	1.645	0.00		6
CB		В	î	-2,595	14.047	0.770	0.00	0.00	6
C	ILE	В	î	-4.000	13.490	0.605	0.00	0.00	6
Č	ILE	В	î	-2.638	15,440	1.408	0.00	7	6
C	ILE	В	î	-3,382	16.479	0.614	0,00	0.00	6
C	ILE	В	î	-1.995	11,678	1.362	0.00		6
0	ILE	В	1	-2.629	11.012	2.183	0.00		8
	ALA	В	1	-1.469	11.137	0.271	0.00	0.00	7
N CA	ALA	B	_	-1.659	9.743	-0,091	0.00		6
-	ALA	В	1	-1.078	9.497	-1.479	0.00		6
CB		B	ti	-1.078	8.761	0.908	0.00	-	6
١Ğ	ALA	_	_			1.009	0.00		18
10	ALA	B	 	-1.522	7.620	1.642	0.00		7
N	TYR	B	1	-0.031	9.162		0.00		6
I CA	TYR	B	11	0.606	8.329	2.645	10.00	1 0.00	

Figure 1 - 34

		_			1 :	10010	1 0 00		1.0
CB	TYR	LB.	1	2.014	8.854	2.943	0.00	0.00	6
C	TYR	<u>B</u>	1	2.850	7.925	3.794_	0.00	0.00	6
C	TYR	В	1	3.636	6.939	3.212	0.00	0.00	6
ČE	TYR	В	1	4.401	6.086	3.986	0.00	0.00	6
_			_						6
<u>c</u>	TYR	В	1	2.852	8.034	5.177	0.00	0.00	_
CE_	TYR	B	L	3.610	7.186	5.958	0.00	0.00	6
CZ	TYR	LB_	1	4.384	6.216	5.358	0.00	0.00	6
0	TYR	В	1	5.142	5.374	6.138	0.00	0.00	8
	TYR	В	î	-0.198	8.250	3.937	0.00	0.00	6
<u>c</u> _		-						_	
0_	TYR	<u>B</u>	1	-0.104	7.256	4.662	0.00	0.00	8
N_	GLY_	В	1	-0.963	9.293	4.248	0.00	0.00	17
CA	GLY	В	1	-1.773	9.308	5.455	0.00	0.00	6
С	GLY	В	1	-1.314	10.320	6.490	0.00	0.00	6
	GLY	В	_		10.471	7.533	0.00	0.00	8
0_			1	-1.960					
N	ASP	В	1	-0.278	11.098	6.180	0.00	0,00	7
CA	ASP	В	1	0.254	12.078	7.116	0.00	0.00	6
СВ	ASP	В	1	1.692	12.465	6.736	0.00	0.00	6
C	ASP	В	1	2.678	11.416	7.227	0.00	0.00	6
								0.00	8
<u> </u>	ASP	L <u>B</u>	1	3.710	11.204	6.560	0.00		
0	ASP	В	1	2.400	10.811	8.284	0,00	0.00	8
C	ASP	В	1	-0.599	13.330	7.234	0.00	0.00	6
0	ASP	В	i	-0.518	14.047	8.234	0.00	0.00	8
N	ALA	В	i	-1.408	13.603	6.218	0.00	0.00	7
			_				0.00	0.00	6
CA	ALA	B	1	-2.282	14.768	6.227			
CB	ALA	В	1	-1.545	15.978	5.671	0.00	0.00	6
C	ALA	B	1	-3.538	14.484	5,410	0.00	0.00	6
0	ALA	В	1	-3.555	13.544	4.613	0.00	0.00	8
N	ASP	В	1	-4.573	15,288	5,622	0.00	0.00	7
	ASP	В	1	-5.808	15.128	4.857	0.00	0.00	6
CA.		_							6
<u>CB</u>	ASP	В	1_	-7,045_	15.068	5.746	0.00	0.00	_
<u>c</u>	ASP	B	1	-7.073	13.809	6.598	0.00	0.00	16
0	ASP	В	1	-7,526	13.894	7.758	0.00	0.00	8
0	ASP	В	1	-6.629	12.750	6.106	0.00	0.00	8
Č	ASP	В	ī	-5.893	16.279	3.854	0.00	0.00	6
			_				0.00	0.00	8
٥	ASP	В	1	-6.203	16.091	2,684			
N_	VAL	В	1	-5.540	17.471	4.321	0.00	0.00	7
CA	VAL	В	L_	-5,493	18.672	3.508	0.00	0.00	6
CB	VAL	В	1_	-6.459	19.763	4.011	0.00	0.00	6
c	VAL	В	1	-6.406	20,998	3.114	0.00	0.00	6
		В	_				0.00	0.00	6
<u>c</u>	VAL		1	-7.895	19.274	4,108			_
C	VAL	В	1	-4.086	19.272	3.518	0.00	0.00	6
0	VAL	В	1	-3.427	19.305	4.555	0.00	0.00	8
Z	MET	В	ı	-3.639	19.782	2.378	0.00	0.00	7
CA	MET	В	ī	-2.378	20.493	2.263	0.00	0.00	6
	MET	В		-1.271	19.658	1.631	0.00	0.00	6
<u>CB</u>		_	1						
<u>c</u>	MET	В	1_	-0.765	18.428	2.341	0.00	0.00	6
SD	MET	В	1	-0.019	18.748	3.946	0.00	0.00	1
CE	MET	В	1	1.695	18.988	3.486	0.00	0.00	6
C	MET	В	ī	-2.549	21.748	1.395	0.00	0.00	6
		В	1	-3,075	21.667	0.284	0.00	0.00	8
<u>0</u>	MET		_						
N_	VAL	В	1	-2.077	22.884	1.890	0.00	0.00	7
CA	VAL	В	ட	-1.916	24.084	1.073	0.00	0.00	6
СВ	VAL	В		-1.928	25.394	1.865	0.00	0.00	6
C	VAL	В	1	-2,270	26.574	0.962	0.00	0.00	6
	VAL	В	1	-2.894	25.339	3.041	0.00	0.00	6
<u>c</u>		_	_						
띸	VAL	В	1	-0.548_	23.935	0.394	0.00	0.00	6
0	VAL	В	L1	0.440	23.733	1.103	0.00	0.00	8
	ALA	В	1	-0.490	23.976	-0.927	0.00	0.00	7
	ALA	В		0.781	23.809	1.623	0.00	0.00	6
Z		_	1						
N CA			_	0.861	22.436	·2.275	0.00	0.00	6_
N CA CB	ALA	В							
N CA		В	1	0.985	24.883	-2.684	0.00	0.00	6
N CA CB C	ALA ALA	В		0.985	24.883 25.477	-2.684 -3.172	0.00	0.00	8
N CA CB	ALA	_	1				j		

_	GIV	р		3 026	26.714	3 870	0.00	0.00	Ţ
<u>c</u>	GLY	B	1	3.936 4.803	26.714 26.194	-3.879 -3.181	0.00	0.00	ť
N	GLY	В	Î	4.122	27.849	-4.543	0.00	0.00	Ť
CA		_				-4.497	0.00	0.00	t
	GLY	B	1	5.387	28.564	-4.611	0.00	0.00	ti
č	GLY	B	_	5.124	30.062				-
0	GLY	B	1	4.054	30.504	-5.026	0.00	0.00	¥
N.	ALA	В	1	6,124	30.827	-4.211	0.00	0.00	ť
CA	ALA	В	1	6.071	32.279	-4.285	0.00	0.00	4
CB	ALA	Į.B.	1	5,563	32.894	-3.001	0.00	0.00	4
<u>c</u> _	ALA	LB_	1	7.484	32.761	-4.618	0.00	0.00	Ľ
0	ALA	B	1	8.460	32.155	-4.182	0.00	0.00	14
N	GLU	B	1	7.573	33.801	-5,429	0.00	0.00	Ľ
CA	GLU	B	11	8.863	34.352	-5.816	0.00	0.00	L
CB	GLU	В	1	9.419	33.641	-7.049	0.00	0.00	L
ဂ	GLU	B.	1	10,909	33.815	-7.291	0.00	0.00	L
Ç	GLU	В	1	11.720	32.733	-6.598	0.00	0.00	Ī
0	GLU	В	1	11.478	31.534	-6.865	0.00	0.00	Ι
0	GLU	В	1	12.584	33.086	-5.773	0.00	0.00	T
c	GLU	В	1	8.715	35.844	-6.094	0.00	0.00	T
ŏ	GLU	В	1	7.669	36.320	-6.521	0.00	0.00	T
N	LYS	В	1	9.780	36.575	-5.833	0.00	0.00	t
CA	LYS	В	1	9.876	37.996	-6.134	0.00	0.00	t
CB	LYS	В	1	9.192	38.894	-5.117	0.00	0.00	T
		_					_	0.00	t
C	LYS	B	1	8,697 9.810	40.210	-5.704 -5.749	0.00	0.00	t
			_		41,247		0.00	0.00	ť
CE	LYS	B	1	9.256	42.620	-6.102			ľ
NZ	LYS	B	1	10.128	43.319	-7.087	0.00	0.00	t
č	LYS	B	1	11.374	38.293	-6.252	0.00	0.00	•
9	LYS	B	1	12.016	38.792	5.335	0.00	0.00	Ł
N	ALA	В	1	11.923	37.858	-7.380	0.00	0.00	Ľ
CA	ALA	В	1	13.346	37.965	-7.651	0.00	0.00	٢
CB.	ALA	В	1	13.896	36.631	-8.145	0.00	0.00	H
드	ALA	В	1	13.661	39.069	-8.643	0.00	0.00	۲
0	ALA	В	L.	14.767	39.112	-9,197	0.00	0.00	μ
N	SER	В	1	12,736	40.004	-8.842	0,00	0.00	Ľ
CA	SER	В	1	12.999	41.133	-9.733	0.00	0.00	L
CB	SER	В	1	11.735	41.630	-10.425	0.00	0.00	μ
0	SER	В	ı	10,719	41.919	-9.481	0.00	0.00	L
ဌ	SER	В	LL.	13.658	42.240	-8.915 ₋	0.00	0.00	Ľ
0	SER	В	1	13,077	43.275	<u>-8.617</u>	0.00	0.00	L
N	THR	В	ᆚ	14.886	41.997	-8,475	0.00	0.00	Ľ
CA	THR	В	1	15.688	42.920	-7.696	0.00	0.00	Ŀ
CB	THR	В	1	16.006	42.438	-6,270	0.00	0.00	L
0	THR	В	1	16.969	41.373	-6.337	0.00	0.00	L
С	THR	В	1	14.779	41.964	-5.510	0.00	0.00	L
Ç	THR	В	ı	17.014	43,108	-8.434	0.00	0.00	L
0	THR	В	1	17.372	42.301	-9.293	0.00	0.00	I
N_	PRO	В	1	17.782	44.116	-8.053	0.00	0.00	Ŀ
Ĉ.	PRO	В	1	17.422	45,113	-7.012	0.00	0.00	Ī
CA	PRO	В	1	19.086	44.378	-8.633	0.00	0.00	1
CB	PRO	В	1	19.700	45.388	-7.663	0.00	0.00	1
c	PRO	В	ì	18.531	46.126	-7.107	0.00	0.00	1
č	PRO	В	1	19.957	43.142	-8.766_	0.00	0.00	1
o l	PRO	В	1	20.533	42.868	-9.820	0.00	0.00	Ì
N	LEU	В	1	20.070	42.357	-7,699	0.00	0.00	ľ
			1				0.00	0.00	t
CA	LEU	В		20.840	41.126	-7.668			•
CB	LEU	В	1	20.982	40.641	-6.223	0.00	0.00	Н
<u>c</u>	LEU	В	1	22.303	40.023	-5,775	0.00	0.00	Ц
C	LEU	В	1	23.505	40.843	-6.217	0.00	0.00	Ц
C	LEU	В	1	22.319	39.852	-4.261	0.00	0.00	U
C	LEU	В	1	20.204	40.037	-8.524	0.00	0.00	Ц
~ 1	LEU	В	1	20.902	39.222	-9.128	0.00	0.00	1
ᇰᆜ									١.
N_	GLY	В	1	18.875	40.011	-8.563	0.00	0.00	Ľ

							2001	0.00	٦
C	GLY	В	1	18.231	39.294	-10.841	0.00	0.00	8
	GLY	픠	1	18.482	38.368	-11.616	0.00	0.00	7
N	VAL	В	1	18.012	40.540	-11.257 -12.680	0.00	0.00	6
CA	VAL	В	1	18,114	40.877	-13,000	0.00	0.00	6
CB	VAL	В	-	17.522	42.254	-13.000 -14.492	0.00	0.00	6
ļ <u>c</u>	VAL	В	1	17.585	42.548 42.340	-12.516	0.00	0.00	6
15	VAL	В	1	16.080	40.788	-13.100	0.00	0.00	6
ļĊ.	VAL	B B	1	19.580	40.788	-14.046	0.00	0.00	8
6-	VAL	В	2	19.934 20.452	41.426	-12.326	0.00	0.00	7
N	GLY	В	2	21.880	41.395	-12.580	0.00	0.00	6
CA	GLY	В	2	22.468	39.993	-12.607	0.00	0.00	6
lc_	GLY	В	2	23.247	39.675	-13.505	0.00	0.00	8
N O	GLY	В	2	22,151	39.157	-11.627	0.00	0.00	7
	GLY	В	2	22.680	37,817	-11.495	0.00	0.00	6
CA.	GLY	В	2	22.380	36,909	-12.672	0.00	0,00	6
ŏ_	GLY	В	2	23.254	36.212	·13.187	0.00	0.00	8
N	PHE	В	2	21.128	36.914	-13.116	0,00	0.00	7
CA	PHE	В	2	20,705	36,129	-14.269	0.00	0.00	6
CB	PHE	В	2	19,188	35.986	-14.314	0.00	0.00	6
C	PHE	В	2	18,629	34.898	-13.445	0.00	0.00	6
Č.	PHE	В	2	17,786	35.206	-12.390	0.00	0.00	6
C	PHE	В	2	18.935	33.568	-13.683	0.00	0.00	6
CE	PHE	В	2	17.263	34.211	-11.585	0.00	0.00	6
CE	PHE	В	2	18.415	32.567	-12.885	0.00	0.00	6
CZ	PHE	В	2	17.576	32.892	-11,835	0.00	0.00	6
C	PHE	В	2	21.222	36.822	-15.531	0.00	0.00	6
0	PHE	В	2	21.633	36,184	-16.493	0.00	0.00	8
N	GLY	B	2	21,309	38.148	-15.481	0.00	0.00	17
CA	GLY	B	2	21.920	38.965	-16.513	0.00	0.00	16
C_	GLY	B	2	23.391	38,623	-16.716	0.00	0.00	8
0	GLY	В	2	23.875	38.526	-17.845	0.00	0.00	7
N	ALA	B	2	24.114	38,396	-15,625	0.00	0.00	6
CA	ALA.	<u>B</u>	2	25.522	38,052	-15.617 -14.186	0.00	0.00	6
CB	ALA	B	2	26.053	38.085 36.697	-16.238	0.00	0.00	6
C_	ALA	B	2	25,826	36.477	-16.760	0.00	0.00	8
10	ALA	B	2	26.920 24.863	35.783	-16.211	0.00	0.00	7
N	ALA	ВВ	2	24.986	34.472	-16,825	0.00	0.00	6
CA CB	ALA	В	2	24,191	33,446	-16.026	0.00	0.00	6
C	ALA	В	2	24.497	34.494	-18.270	0.00	0.00	6
0	ALA	В	2	24.478	33,476	-18.963	0.00	0.00	8
N	ARG	В	2	24.004	35.644	-18.722	0.00	0.00	7
CA	ARG	В	2	23.499	35.835	-20.070	0.00	0,00	6
CB	ARG	В	2	24,620	35,601	-21.090	0.00	0.00	6
C	ARG	В	2	25,718	36.653	-21,079	0.00	0.00	6
C	ARG	В	2	26,575	36,597	-22,337	0.00	0.00	16
N	ARG	В	2	25,762	36,371	-23.526	0.00	0.00	17
CZ	ARG	В	12	25.831	35.321	-24.333	0.00	0.00	16
N	ARG	В	2	25.011	35.258	-25.377	0.00		17
N	ARG	В	2	26.699	34.341	-24.113	0.00	0.00	7
C	ARG	В	2	22.308	34.934	-20.376	0.00	0.00	6
0	ARG	В	2	22.108	34.513	-21.515	0.00	0.00	8
N	ALA	В	2	21.458	34.698	-19,386	0.00	_	7
CA	ALA	B	2	20.327	33.792	-19.508	0.00		6
CB		B	2	20.175	33.000	-18.211	0.00	0.00	6
C	ALA	B	2	19.029	34.535	-19.798	0.00	0.00	6
0	ALA	B	2	18.018	33,936	-20.149	0.00	0.00	8 7
N	LEU	₽	2	19.068	35.847	-19.625	0.00	0.00	6
CA	LEU	<u>₿</u>	12	17.911	36.706	-19.813	0.00	0.00	6
CB		B	2	17.986	37,834	-18.780	0.00		6
C	LEU	↓ <u>B</u>	2	17.015	37.916	-17.612	0.00		6
C	LEU	₽	12	16,630	36,561	-17.050	0.00		6
C	LEU	В	2	17.615	38.786	1-16.505	0.00	10.00	10

C	LEU	В	2	17.844	37.339	-21.197	0.00	0.00	6
0	LEU	В	2	18.868	37.677	-21.784	0.00	0.00	8
N	SER	В	2	16.623	37,549	-21.687	0.00	0.00	7
CA	SER	В	2	16.421	38.239	-22.955	0.00	0.00	6
СВ	SER	В	2	14.966	38.166	-23,409	0.00	0.00	6
0	SER	В	2	14,690	39.185	-24,358	0.00	0.00	8
Ċ.	SER	В	2	16.826	39,705	-22.784	0.00	0.00	6
ō	SER	В	2	16.722	40.242	-21.680	0.00	0.00	8_
N	THR	В	2	17.273	40.344	-23.859	0.00	0.00	7
CA	THR	В	2	17.738	41.737	-23.762	0.00	0.00	6
СВ	THR	В	2	19.260	41.759	-23.962	0.00	0.00	6
o	THR	В	2	19.868	41.092	-22.832	0.00	0.00	8
Č	THR	В	2	19.889	43.137	-24.035	0.00	0.00	6
C	THR	В	2	16,962	42.631	-24.708	0.00	0.00	6
0	THR	В	2	17,285	43.792	-24.973	0.00	0.00	8
N	ARG	В	2	15.782	42.175	-25.133	0.00	0.00	7
CA	ARG	В	2	14.924	42,914	-26,051	0.00	0.00	6
СВ	ARG	В	2	13.923	41,938	-26.690	0.00	0.00	6
C	ARG	В	2	13.305	42,435	-27.985	0.00	0.00	6
C	ARG	В	2	12.311	41.433	-28.553	0.00	0.00	6
N	ARG	В	2	12,906	40.609	-29.599	0.00	0.00	7
CZ	ARG	В	2	13.523	39.451	-29.399	0.00	0.00	6
N	ARG	В	2	13.642	38.939	-28.179	0.00	0.00	7
N	ARG	B	2	14.030	38.790	-30.433	0.00	0.00	7
С	ARG	В	2	14.195	44.087	-25.417	0.00	0.00	6
0	ARG	В	2	12.965	44.106	-25.333	0.00	0.00	8
N	ASN	В	2	14.906	45.140	-25.025	0.00	0.00	7
CA	ASN	В	2	14.339	46.315	-24.394	0.00	0.00	6
CB	ASN	В	2	15.448	47,195	-23.797	0.00	0.00	6
C	ASN	В	2	16.257	46.486	-22.732	0.00	0.00	6
0	ASN	B	2	15.799	46.299	-21.602	0.00	0.00	8
N	ASN	B	2	17.473	46.083	-23,082	0.00	0.00	17
C	ASN	В	2	13,481	47,176	-25.307	0.00	0.00	6
0	ASN	B	2	12.652	47.946	-24.811	0.00	0.00	18
N_	ASP	B.	2	13.641	47.077	-26,622	0.00	0.00	7
CA	ASP	B	2	12.853	47.865	-27.564	0.00	0.00	16
CB	ASP	B	2	13.411	47.770	-28.983	0.00	0.00	6
C_	ASP	ĮB.	2	13.539	46.347	-29.487	0.00	0.00	16
0	ASP	B	2	14.477	45.642	-29.058	0.00	0.00	8
<u></u>	ASP	Į₿.	2	12.702	45.927	-30.313	0.00	0.00	6
<u>c</u>	ASP	B	2	11.388	47.443	-27.518 -27.634	0.00	0.00	8
0	ASP	B	2	10.484	48.269	-27.314	0.00	0.00	7
N.	ASN	B	2	11,153	46.153 45.601	-27.205	0.00	0.00	6
CA	ASN	B	2	9.811	45.031	-28.555	0.00	0.00	6
CB	ASN	B	2	9.387 7.928	44.678	-28,693	0.00	0.00	6
논	ASN	B	2	7.470	44.389	-29.804	0.00	0.00	8
10	ASN	B	2	7.168	44.677	-27.605	0.00	0.00	7
N N	ASN	В	2	9.750	44.542	-26.111	0.00	0.00	6
Ѥ	ASN	В	2	9.883	43.342	-26.353	0.00	0.00	8
<u>Q</u>	PRO	В	2	9.509	44.976	-24.877	0.00	0.00	7
N	PRO	B	2	9.381	46.408	-24.497	0.00	0.00	6
CA	PRO	В	2	9.418	44.106	-23.722	0.00	0.00_	6
CB	PRO	В	2	9.092	45.047	-22.564	0.00	0.00	6
C	PRO	В	2	9.566	46.386	-23.004	0.00	0.00	6
C	PRO	В	2	8.389	42.994	-23.813	0.00	0.00	6
6	PRO	В	2	8.645	41.874	-23.353		7	8
K	GLN	В	2	7.231	43.236	-24.419			7
CA	GLN	В	2	6.171	42.253	-24.546		_	6
CB	GLN	В	2	4.822	42.932	-24.816	0.00		6
C	GLN	В	2	4.330	43.835	-23.704	0,00	0,00	6
C	GLN	В	2	4.389	45.304	-24.073	0.00	_	6
ŏ	GLN	В	2	5.374	45.778	-24.642			8
N	GLN	В	2	3.324	46.029	-23.745			7
	1 414	,,,,							

٦	: IG	LN	В	2	6.38	,	43.0		00	C01					_
1		LN	В	2	5.582		41.2		-25			_	0.0	_	6
1		LΑ	В	2	7.407		41.3			739			0.0	_	18
	AA		В	2	7.686		40.3			466		_	0.0	_	17
	BA		B	2	7.796		41.0	_	-27.		_		0.0		16
Ì			В	2	8.973		39.6		-28.				0.0		6
Ì	_		В	2	9.383	į			-27.			_	0.0		6
L.	_		В	2	9.608		38.7 40.0	_	-27.				0.0	_	8
Ġ			B	2	10.85				-26.		10.0	_	0.0		7
	B AI		В	2	11.38		39.4		-25.		_		0.00		6
	_		В	2	10.69		40.1 37.9		-24.		10.0	$\overline{}$	0.00	_	6
lõ			B	2	11.50	_		_	-25.		_	_	0.00	_	6
Ň			B	2	9.673	4	37.10		·25.		0.0	_	0.00		8
C			В	2	9.427	7	37.58		-24.		0.0	_	0.00		7
Č		_	В	2	8.587	7	36.18		-24.		10.0	_	0.00		6
lõ	SE		B	2	8.334	-	36.09	_	-22.9		0.0	_	0.00		6
Č	SE		В	2	8.745	+	34,74 35,50		-22.6		0.0		0.00		8
ŏ	ŞE	_	вT	2	7.552	\dashv	35.70		-25.4		0.0	_	0.00	_	<u>6</u>
N			В	2	9.501	7	34.72		-25.6	<u> </u>	0.0	_	0.00	-	8
C			В	2	8.972		34.05		-26.1		0.0	_	0.00	_	7
C		_	в	2	9.340	_	34.86	_	-27.3 -28.5		0.00		0.00	_	6
C	AR		В	2	10.801		35.25		-28.7		0.00	_	0.00		6
Ĉ	AR			2	11.144	_	35.81		·20.1	_	0.00	_	0.00	_	6
И	AR		_	2	10.476		37.07		-30.3		0.00	_	0.00 0.00		<u>6</u> 7
CZ			_	2	9.563		37.36	_	-31.2		0.00	-	0.00	_	6
N	AR		_	2	9.137		36.47	_	-32.1		0.00	_	0.00		7
N	AR	G]	3	2	9.058	_	38.59	_	-31,2		0.00	_	0.00		7
С	AR	G I	3	2	9.485	_	32,62	_	-27.4		0.00		0.00	_	6
0	AR	$\mathbf{G} = \mathbf{I}$	3	2	10.377		32.32	_	28.2		0.00	_	0.00	_	8
N	PRO	2 1	<u>1</u>	2	8.936		31.72	71.	26.6		0.00	1	0.00		7
C	PRO		1	2	7.864		1.97		25.6		0.00		00.0	_	6
LCA			1	2_[9.371	3	0.345		26.60	_	0.00	_	.00	_	6
CE	PRO) I	1	2]	8.570		9.672		25.56		0.00		.00	_	6
C	PRO				7.458	3	0.597		25.23		0.00	_	.00	_	6
C	PRO	_	_		9.175	12	9.678	3 .	28.00	8	0.00		.00	_	5
0	PRO	_			8.131	12	9.769	<u> </u>	28.64	7	0.00	10	.00	18	3
N	TRP				<u> 10.216</u>		8.997		28,47	11	0.00	10	.00		괴
CA	TRP			_	10.261		<u>8.253</u>		<u> 29.71</u>		0.00	0	.00	Te	<u>.</u>
CB			_	_	9.073		<u>7.293</u>		<u> 29.80</u>	3	0.00	10	.00	16	௶
C	TRP		_	_	9.118		6,167		<u> 28.81</u>		0.00		.00	16	ᅬ
	TRP	_	_	_	8.168	_	<u>5.926</u>	_	27.76	_	0.00		.00	↓6	∐
CE	TRP		12	_	8.589		4.772	_	<u> 27.07</u>		0.00	_	.00	16	Ц
C	TRP	B	12	_	7,004		6 <u>.579</u>	_	<u> 27.34</u>		0.00		00	16	
N	TRP	B	2		10.050		5.177		28,71		0.00		00	16	
CZ	TRP	B	12		7.886		4.332		27.68		0.00		00	17	_
CZ	TRP	В	2		3.308		.252	_	25.99	_	0.00	_	00	16	_
C	TRP	B	2		.753	_	0.064		26.26		0.00		00_	16	_
C	TRP	B	2		0.360		1 <u>.911</u>).088		25.60° 30.98		0.00		00_	6	-
0	TRP	В	2		0.470		1.532		2.07		0.00		00	6	\dashv
N	ASP	В	2		0.375		.406	7	0.86		0.00		00	8	┨.
CA	ASP	В	2		0.598		.309	_	1.980	_	.00	0.0		7	┥.
СВ	ASP	В	2	_	0.100		.708	_	1.631	_	.00	0.0		6	┨
С	ASP	В	2	_	0.026		.634		2.825		.00	0.0		6	┪
0	ASP	В	2		0.882		.541		2.926		.00	0.0		8	┨
0	ASP	В	2	_	.100		478	_	3.647	7	.00	0.0		8	1
С	ASP	В	2		2.093		324		2.293		.00	0.0		6	1
0	ASP	В	2	$\overline{}$	2.914		.053		1.414	_	.00	0.0		8	1
N	LYS	В	2	$\overline{}$	2.451		655		3.526			0.0		7	1
CA	LYS	В	2		3.839		677	_	3.956	_		0.0	_	6	1
СВ	LYS	В	2		3.904		745		5.490	_		0.0		6	1
С	LYS	В	2		3.364		042		6.070	_		0.0		6	1
C	LYS	В	2		4.242		558		7.199			0.0		6	1
CE	LYS	В	2	1	5.353		452		5.679		_	0.0	_	6	1
															-

		YS_	В	2	15.41			-37.4		0.00	0.00	
LC.		YS_	B	12	14.66	2 32.8	308	-33.3	61 (0.00		_
10		YS	В	2	15.88	3 32.6	72	-33.2		0.00		
N	L G	ւս	В	2	14.03	5 33.9	16	-32.9		0.00		
L <u>C</u>	AG	LU	В	2	14.72	6 35.0	61	-32.4	_	00.0	_	_
C	B G	ւս	В	2	13.99	4 36.3	50	-32.8		00.0	_	_
C	G	ւՄ	В	2	13.99	9 36.7	00	-34.2		00.0		
LC	G	LU	В	2	13.18	4 37.9	68	-34.50		.00	_	
lo	G	U	В	2	13.72	4 39.0	57	-34.22	$\overline{}$.00		_
lo	G	U	В	2	12.01			-34.93		.00	_	_
Lc	GI	U.	В	2	14.88			-30.91	$\overline{}$,00	0.00	
0	GI	UL	В	2	15.30	_	_	-30.33		.00	0.00	
N	AF	≀G	В	2	14.57			-30.24	_	.00	0.00	
C	A AF	≀G [В	2	14.76			-28.80	_	.00	0.00	
CI	BAF	tG	В	2	14.709	_		-28.38	_	.00	0.00	
C	AF	iG]	В	2	13.360			-28.33		.00	0.00	┪
C	AF	G	В	2	13.48			-28.28	_	.00	0.00	┪
N	AR	G	В	2	14.578			-29.06		00	0.00	ᅥ
CZ	AR	G	В	2	14.646			-29.59	_	.00	0.00	7
N	AR	G	В	2	13.659			-29.44	-	00	0.00	7
N	AR		В	2	15.720			-30.28		00		-
C	AR		В	2	16.145			-28.36		00	0.00	+
0	AR		В	2	17.137		_	-28.98		00	0.00	4
N	AS		В	2	16.207			-27.26				+
CA	AS		В	2	17.496			-26.73		00 00	0.00	+
CB				2	17.832			-27.18		_	0.00	+
С	AS	Р.		2	16.949			-26.580			0.00	+
0	AS	_	_	2	15.755	37.67		-26.343	_	00	0.00	+
0	AS			2	17.444	39.06		-26.35	_		0.00	†
C	ASI	2]]		2	17.552	35,32		-25.21		$\overline{}$	0.00	_
0	ASI	• []	3	2	18.370	35.99	_	-24.576	_	_	0.00	\pm
N	GL	Y 1	3	2.	16.729	34.45	_	-24,622			0.00	†
CA	GL	ŒΙ		2	16.754	34.25		-23,180		$\overline{}$	0.00	_
C	GL		_	2	15.393	34,37	_	-22.513	_	_	0.00	+
0	GL		3 [2	14.460	34.94	$\overline{}$	23.082	_		0.00	
N	PHI	E	3 [2	15.264	33.85		21.293	_	_	0.00	Ť
CA	PHI	2 F	1	2.	13.987	33.90		20.587		_	0.00	t
<u>CB</u>	PHI		\coprod_{i}	2	13.870	32.798		19.546			0.00	T
<u>C_</u>	PHI	$\perp \mid E$	Ц2	1	14.610	32.93	_	18.254	0.0		0.00	Ī
C	PHI	LE	1 2	╧	14.083	33,664	_	17.203	0.0		0.00	Ì
<u>c</u> _	PHE	<u>; B</u>	1 2	:	15.840	32.315		18.077	0.0	_	0.00	1
CE	PHE	<u> </u>	12	1	14.765	33,785		16.007	0.0	_	0.00	e
CE	PHF	<u> B</u>	12	\perp	16.528	32.432	_	16.884	0.0	_	0.00	Ì
<u>cz</u>	PHE	<u> </u>	2		15.991	33,169		15.848	0.0		0.00	Ė
C_	PHE	B	2		13.692	35.281		20.011	0.0		0.00	6
0	PHE	В	2		14.537	36,171	┰	19.954	0.0	$\overline{}$	0.00	8
N	VAL	В	2		12,427	35.476	_	19.649	0.0	_	0.00	7
CA	VAL	В	2		11.965	36.728	7	19.061	0.00	_	.00	6
СВ	VAL	В	2		0.819	37,378	_	9.845	0.00		,00	6
	VAL	В	2		0.370	38,672	_	9.177	0.00	_	.00	6
	VAL	В	2		1.234	37,671	_	21.282	0.00	_	.00	6
2	VAL	В	2		1.538	36.468	_	7.615	0.00	_	.00	6
	VAL	В	2		0.803	35.529	7	7.331	0.00	_	.00	8
1	LEU	В	2	1	2.064	37.268		6.701	0.00	_	.00	7
A	LEU	В	2	_	1.820	37.122		5.274	0.00	_	.00	_
_	LEU		2		2.911	37.874		4.519		7.		6
	LEU	В	2	ī	3.283	37.540		3.085	0.00	_	00	6
	LEU	В	2		2.981	36,102		2.696		_	00	6
	LEU	В	2		4.769	37.833			0.00		00	<u>6</u>
_	LEU	В	2		0.446			2.865	0.00		00	<u>6</u>
	LEU	В	2		0.029	37.641		4.868	0.00			6
	GLY	В	2			38.705	_	5.327	0.00			<u>8</u>
	GLY	_			756	36,907		4.001	0.00	_		7
	GLY	용	2		439	37.300		3.531	0,00	_		6
	إبت	LB.	2	10.	245	37.044	-1	2.042	0.00	In.	00_	6

	_				_													
		0	I_{0}	ĴΙ	Y	В	$\pm i$	8.86	4	36.	154	-11.4	156	0	00	0.	nn	1 8
		N	14	١Ş	P	В	12	7.35	7	37.				_	00	0.		7
		<u>CA</u>	_	<u>\S</u>	_	В	12		9	37.0	581	-10.0			00	0.		1
		<u>CB</u>	_	S	_	В	12		1	39.0	213	-9.26	1	_	00	0.0		16
	_	<u>_</u>		rz		В	12		_	39.7		-9.45	0	0.	00	0.0	00	Te
		<u>2</u>		S		В	12		_	39.1	_	-9.37	7	0.	00	0.0	00	8
	_	<u></u>	_	S		В	12		_	40.9	_	-9.67	6_	0.		0.0	00	8
	19			<u>S</u>		В	12		_	37.1		-9.80	4_	0.	00	0.0	00	6
		<u>} </u>		S		B	2	4.76	-	37.3		-10.6	_	0.6	00	0.0	0	8
		<u>, v</u>		L		B	2	5.394		36.5		-8.64		0.0		0.0		7
	_	<u>A</u>	_	L	_	B	12	4.060	_	36.0		-8.33		0.0		0.0		16
	18			L		B	2	4.049	_	34.8		-7.36		0.0	_	0.0	_	16
				L/		B B	2	2.897	_	34.5		-6.67	_	0.0		0.0		8
		A		L		В	2	2.672	_	34.2 33.1	_	-7.30		0.0	_	0.0		7
		В	_	LA	_	B	2	2.668		33.5		-6.39		0,0		0.0		6
	C		_	LA	_	B	2	1.336		32.4		-6.70		0.0	_	0.0		6
	0	Ĭ		LA		B	2	0.329	_	33.1		-6.890		0.0 0.0		0.0		6
	N			LY		В	2	1.363		31.1		-6.779		0.0		0.0		<u>8</u> 7
	C	A	G	LY	I	В	2	0.163		30.33		-7.029		0.0		0.0		6
	C	_	G	LY	ı	В	2	0.020		29.38		-5.837		0.0		0.00		6
	10	4	C	LΥ	4	В	2	1.036		28.95		-5.292	_	0,0		0.00		8
	N		M.			B.	2	-1.211	Ш	29.10)2	-5,442		0.0		0.00		7
	C		M			В	2	-1.422		28,23	3	-4.284	\perp	0.0	0 [0.00		6
	Š	버	M			Щ	2	-1.550		29.11		-3.041		0.0		0.00		6
	C	╮┼	M		_	B	2	-0.922	4	28.60		-1.769		0.0)	0.00		6
i	SI	_	MI MI	_	_	B	2	0.868	+	28.69		<u>-1.678</u>	_	0.00	_	0.00		1
	c	4	MJ			B B	2 2	1.196	+	30.33		-2.299),00	_	0.00		6
	ŏ	+	MI			_	2	-2,670 -3.679	+	27.38 27.92		4,482	_	0.00		0.00		6
	N		LE		Ti		2	-2.590	+	26.09	_	<u>-4.952</u> -4.184		0.00	_	0.00	_	8
l	C/		LE		I		2	-3.766	7	25.24		4.290	_	0.00	_	0.00 0.00		7
I	CE		LΕ		I		2	-3.780	7	24.22		-5.406		.00	_).00).00	-+	6
l	C	L	LΕ	U	I	3.	2	-2.622		23.97	_	6.348		.00	_	2.00	+	6
ļ	C		LΕ		LE	Ц	2	-2.799		22.65	_	7.084		.00		0.00		6
ļ	<u>c</u>		LΕ		E	Щ	2	-2.495	\perp	25.100		-7.364		.00	_	0.00		6
ŀ	<u>c</u>		LE.		Į.		2	-3.990	ناـ	24.490	1	2.973		.00	_	0.00	_	6
ŀ	0		LΕ		벁		2	-3.070	_	24,212	_	2.213	10	.00	lo	.00		8
ŀ	N		ZΑ		HB.		2	<u>-5.258</u>		24.167		2.753		.00	10	.00	Ţ	$\overline{\Box}$
ŀ	CA CB		/A) /A)		B	_		-5.647		23,333		1,629		00		.00	_	<u>5</u>
ŀ	C		/AJ		B	1	_	-6.971 -7.287		3.726		0.970	_	00		.00		ย
_	č		/AI		В	12		-6.934		2.787 5.165	_	0.190	_	00		.00	_	<u></u>
	č		Άl		В	12		-5.760		1.906	_	<u>0.485</u> 2.178		<u>00</u>	_	.00	49	_
	ō	Ī	'AI		В	12	_	6.503	_	1.652	-	3.124		<u>00</u> 00		.00	+5	_
	N	I	ΕĮ	J	В	12	-	4.938		1.022		1.633	_	00	_	.00	1 7	_
Ŀ	CA	L	ΕŢ	J	В	2		4.968		9.617		2.023	_	00	_	00	6	
4	CB	L	Εľ	J	В	2	\perp	3.564		9.081	_	2.270	_	00		00	6	_
	<u>C_</u>		Εľ		В	12	4	2.854	1	9.486	_	3,561	0.0			00	6	_
	<u></u>		ΕL		В	12		1.421	L	8.970	Ŀ	3,566	0.0	90		00	6	
	<u>~</u> _		ΕL		В	2	_	3.602	_	8.970	14	.779	0.0	8		00	6	_
	<u> </u>		EL		<u>B</u>	12	_	5.635		<u>8.855</u>		.882	0.0	20	0.	00	6	
	2		EĻ		<u>B</u>	2	_	5.298		9.145	_	271	0.0	20	0.	00	8]
	V CA	_	<u>LU</u> LU	_	B	2		6.547		7.935	_	.169	0.0	00	0.	00	7	_
				-	B	2		7.132		7.161		.074	0,0		0.0		6	4
Š)B		LU LU		B B	2	_	8.211		7.932		663	0.0		0.0		6	4
$\frac{5}{6}$			LÜ		В	2		9.550 10.514		3.093		.026	0.0	_	0.0	_	6	4
c			LU		B	2		10.645		.104		845	0.0		0.0		6	4
Č		_	LU	_	В	2		11.130		.277		631 748	0.0	_	0.0	_	8	-
C			LÜ	_	В	2		7.623		.795		538	0.0		0.0 0.0		8	4
C			LÜ	-	В	2	_	7.749	_	.519		729	0.0		0.0		8	1
N	\rightarrow	G	LŪ	Ι	В	2	_	7.740		.901		140	0.0	_	0.0	_	7	1
C	Α	G	ĽÜ	_[В	2		3.152		.525		182	0.0		0.0		6	1
																		_

ſ	СВ	CT	71	n	10	_		_	1		_									
	C	GL		B	2		7.98	_	$\overline{}$	2.69		$\overline{}$	<u> 450</u>	-1	0.0			00	4	•
	č	GL	_	В	2		<u>8.17</u> 9.62		_	1.19	_		233	+	0.0			<u>00</u>	-	6
	ō	GL		В	2		10.2).80 .42			145	+	0.0			00	4	2
	0	GL		В	2		10.0			890			308 734	+	0.0	_		<u>00</u>	+	2
	С	GL	U	В	2		9.58		_	.49			338	+	0.0 0.0			<u>00</u>	_	8
	0	GL	Ū	В	2		10.4			.18			59	_	0,0	_		<u>00</u> 00		6
	7	TY	R	В	2		0.81		_	.67	_		355	_	0.0	$\overline{}$	0.0	_	_	7
L	CA	TY	R	В	2		1.1			.55			999		0.0		0.0		_	6
_	CB	TY	R	В	2		1.0			.39		_	007	_	0.0	_	0.0		_	6
_		TY		В	2	Ŀ	2.3	67		.29			315	_	0.0	_	0.0	_		6
	2	TY		В	2	-1	2.7	73	12	.32	€I		553		0.0		0.0		_	6
	CE	TY		В	2		3,94		12	220	<u>5</u>	-5,	385	_	0.0	_	0.0		_	6
2	$\overline{}$	TY		<u>B</u>	2		3.16			16		-3.	726	1	0.00	οI	0.0	10	Ţ	6
	E	TYI		В	2	_	4.33	_		059		-4.4	53	10	2,00	I	0.0	0		6
_	2	TYF		<u>B</u>	2		4.73			092		-5.2		49	2.00	1	0.0	9		6
15	_	TYF		틧	2		5.88			989		<u>-6.0</u>		49	0.00	4	0.0	Ю	I	3
		TYF TYR		밁	2		2.29	_		410		<u>-1.0</u>			0.00		0.0		_	<u> </u>
IN IN		GLU		B B	2		3.19	_		253		-1,0		_	0.00		0.0		15	3
		GLI		B	2		2.30	_		<u>371</u>		-0.2			0.00		<u>0.0</u>	_	47	
	_	GLL	_	В	2		<u>3,39</u> 3.20			<u>118</u>	_	0.69			.00		0.0		45	
Ğ	_	GLU	_	B	2		3.30		9.7 8.5			1.38			.00	_	0.0	_	16	_
C	$\overline{}$	GLU	_	В	2	_	1,66	_	8.4			0.42 -0.2			.00	_	0.0		19	_
O		GLU		в	2		6.65		8.1).43			.00	$\overline{}$	2.00		6	
0		GLU		вΤ	2		.73	_	8.6			1.4			.00	_	0.00 0.01		8	
C		<u>GLU</u>	1	3]	2		3.60		12.2			.73		$\overline{}$.00	_	0.00		6	
0	_	GLU			2		.74		12.4	142		2,16		$\overline{}$,00		0.00		8	•
l N		HIS	↓ E		2	-12	.55	0	12.9	09		2.13		_	.00	_	0.00	_	7	
C.		HIS	45	_	2		.64		14.0			.05		0	.00		.00		6	_
	_	HIS	∔	_	2		.238		14,4			.48		0	.00	0	.00		6	_
C		HIS HIS	E		2		.205	_	15.5			.50			00	10	.00)	6	_
N		IIS	B	_			.081 .298		15.5		$\overline{}$.84	_		00		.00		6	_
CI		iis	1 B	_	_	_	.296 .244	_	16.8 17.6			.16		_	<u>00</u>		.00		7	_
N	_	IIS	ĪB	-			114	_	6.8			.26 .29			00		.00		6	4
С		IIS	B	_	_		365	_	5.2			410		_	<u>00</u> 00		00.		7	۲
0	H	IIS	В		_		184	_	5.8			.038			00		00		8	d
N		LA	В	12			048		5.4			146		Ó			00		7	1
CA	_	LA	Į₿				619	11	6.5			387		0.0		_	00	┪	6	1
CB	_	<u>LA</u>	B	_	_		<u> 766</u>	11	6.8	29	-0	.85	0	0.0	00		00		6	1
ç		<u>LA</u>	B	12			064		6.32			.02		0,0	0	0.	00		6]
O N		LA	B	12	_		<u>895</u>		7.23		-	033	_	0.0		0.	00	\Box	8]
CA		<u>YS</u> YS	B	2	_	15.			5.10			.43		0,0			00	4	7	1
CB		YS	В	2	_	16. 16.			4.73			.82		0.0			00	4	6	l
C		YS	В	2	_	18.0			3,33 2,69			620		0.0		0.		_	<u>6</u>	ł
C		YS	В	2		17.9			1.20			.639 .929		0.0		0.		_	6	ł
CE	L	YS	В	2		19.2		_	0.64	_	_	540	_	0.0		0.0		_	<u>6</u>	l
NZ	L	ΥS	В	2		18.9			774			718		0.0	_	0.0			<u>6</u> 7	ĺ
C	L	YS	В	2		17.6			1.80	_		379	_	0.0	_	0.0		_	6	ı
0		rs	В	2		18.7			.31		_	295	_	0.0	_	0.0		_	8	ı
N		rs	В	2		17.1		14	1.33	9 T	1,5	32	_	0.0	_	0.0	_		7	Ĺ
CA	L	S	B	2		<u> 17.9</u>		14	.34	7	2.7	75	\perp	0.0	οĪ	0.0	ю		6	1
CB	IJ		<u>B</u>	2		7.1		13	.69	4	3.8	89		0.0	0	0.0	ю		6	
Ç.	LY		B	2		7.7			,68	_		57	_	0,0		0.0		10	5	
CE	LY		B	3		7.1			.64			74		0.0		0.0		18	5	
CE NZ	LY	_	B B	2		7.8			.28			89		0.00	_	0.0			ı	
C	LY		B	2	_	7.0	_		429			37		0.00	_	0,0		12	_	
ŏ	LY		В	2		8,3 9.4			.735	_	_	09		2.00	_	D.0	_	15	_	
N	AR		В	2		7.5			.872 .766	_	3.7			0.00	_	0.0		18		
CA	AR	_	В	2		7.9			. <u>766</u> . 131	_	2 <u>.9</u>		_	3.00	_	<u>).0</u>		+7	_	
СВ	AR	_	В	2		6.7			905	_	. s I. 8			0.00) <u>.0</u>	_	16		
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			_	10.000	10.000	. 001	0.00	0.00	-
<u>c</u>	ARG	В	2	-16.629	18.877	5.361	0.00	0.00	6
<u>C</u>	ARG	В	2	-15.223	18,495	5.797			7
N	ARG	В	2	-15.208	17.305	6.639	0.00	0.00	6
CZ	ARG	В	2	-14.361	17,075	7.633	0.00	0.00	
N	ARG	В	2	-13.421	17.958	7.948	0,00	0.00	7
N	ARG	В	2	-14.446	15.947	8.329	0.00	0.00	7
C_	ARG	В	2	-18,598	18.849	2.129	0.00	0.00	6
0	ARG	В	2	-19.177	19.924	2.276	0.00	0.00	8
N	GLY	В	2	-18.496	18,262	0.942	0.00	0.00	7
CA	GLY	В	2	-19.076	18,799	-0.271	0.00	0.00	6
C	GLY	В	2	-18,336	19.987	-0.860	0.00	0.00	6
0	GLY	В	2	-18.940	21.015	-1.171	0.00	0.00	8
N	ALA	В	2	-17.031	19.848	·1.051	0.00	0.00	7
CA	ALA	В	2	-16.202	20.919	-1.579	0.00	0.00	6
СВ	ALA	В	2	-14.759	20.689	-1.128	0.00	0.00	6
C	ALA	В	2	-16.233	21.053	-3.095	0.00	0.00	6
0	ALA	В	2	-16.500	20.108	-3.829	0.00	0.00	8
N	LYS	В	2	-15.861	22,242	-3.565	0.00	0.00	7
		В	2	-15.628	22.494	4.982	0.00	0.00	6
CA	LYS		2	-15.246	23.955	-5.205	0.00	0.00	6
CB	LYS	В	2	-16.366	24.924	-5.519	0.00	0.00	6
<u>c</u>	LYS	В	_		26.283	-5.931	0.00	0.00	6
C_	LYS	B	2	-15.810			0.00	0,00	6
CE	LYS	B	2	-15,992	27.315	-4.830 -4.954	0,00	0.00	7
NZ	LYS	B	2	-17.289	28,037		0.00	0.00	6
C	LYS	B	2	-14.465	21.615	·5.445	0.00	0.00	8
0_	LYS	В	2	-13.335	21.878	-5.024	_		7
N	ILE	В	2	-14.719	20.598	-6.257	0.00	0.00	
CA	ILE	B	2	-13.626	19.739	-6.720	0.00	0.00	6
CB	ILE	B	2	-13.973	18.247	-6.630	0.00	0.00	6
C_	ILE	B	2	-13,028	17.386	-7.459	0.00	0.00	6
C	ILE	В	2	-13.935	17.795	-5.165	0.00	0.00	6
<u></u>	ILE	B	2	-14.394	16.377	4.914	0.00	0.00	6
C	ILE	B	2_	-13.224	20.148	-8.132	0.00	0.00	6
0	ILE	B	2	-13.901	19.837	9.109	0.00	0.00	8
N	TYR	B	2	-12,090	20.830	-8.243	0.00	0.00	7
CA	TYR	В	2	-11.577	21,318	-9.510	0.00	0.00	6
CB	TYR	B	2	-10.447	22,332	9.276	0.00	0.00	6
C	TYR	В	2	-10.899	23.698	-8.826_	0.00	0.00	6
C	TYR	B	2	-10.901	24.034	-7.480	0.00	0.00	6
CE	TYR	В	2	-11.308	25,286	-7.058	0.00	0,00	6
C_	TYR	В	2	-11.310	24.654	-9.744	0.00	0.00	6
CE	TYR	В	2	-11.719	25.909	-9.331	0.00	0.00	6
CZ	TYR	В	2	-11.714	26,217	-7,990	0.00	0.00	6
0	TYR	В	2	-12,119	27.462	-7.572	0.00	0.00	8
C	TYR	В	2	-10,996	20.221	-10.393	0.00	0.00	6
0	TYR	В	2	-11.028	20.320	-11.619	0.00	0.00	8
N	ALA	В	2	-10.375	19.227	-9.769	0.00	0.00	7
CA	ALA	В	2	-9.739	18.142	-10.500	0.00	0.00	6
CB	ALA	В	2	-8.755	18.680	-11.528	0,00	0.00	6
C	ALA	В	2	-9.018	17.202	-9.536	0,00	0.00	6
ŏ	ALA	В	2	-9.043	17.385	-8.320	0.00	0,00	8
N	GLU	В	2	-8.375	16,196	-10,109	0,00	0.00	7
ÇA	GLU	B	2	-7.653	15.197	-9,338	0.00	0.00	6
	GLU	B	2	-8.294	13.825	-9,577	0,00	0.00	6
CB	GLU	В	2	-7.809	12.712	-8.670	0.00	0.00	6
C	GLU	В	2	-8.396	11.355	-8.998	0.00	0.00	6
_				-7.824	10.329	-8.569	0.00	0.00	8
<u> </u>	GLU	B	2				0.00	0.00	8
8	GLU	B	12	-9.436	11.289	-9.684			$\overline{}$
Ĉ.	GLU	B	2	-6.181	15.144	-9,719	0.00	0.00	6
10	GLU	LB.	2	-5.844	15,155	-10.903	0.00	0.00	7
		T							
N	LEU	В	2	-5.314	15.083	-8.714	0.00	0.00	_
	LEU LEU	В	2	-3.879	14,936	-8.973	0.00	0.00	6
N	LEU								_

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C LEU B 2 -3.657 13.429 -9.133 0.00 0.00 6 N VAL B 2 -3.958 12.694 -8.188 0.00 0.00 7 CA VAL B 2 -3.257 11.527 -10.582 0.00 0.00 6 CB VAL B 2 -3.267 11.527 -10.582 0.00 0.00 6 CB VAL B 2 -3.267 11.030 -11.385 0.00 0.00 6 C VAL B 2 -4.193 11.030 -11.385 0.00 0.00 6 C VAL B 2 -1.869 9791 -10.859 0.00 0.00 6 C GLY B 2 0.427 11.452 -11.115 0.00 0.00 6 C GLY B 2 0.427 11.452 11.115 0.00	С	LEU	В	2	-1.005	16.692	-6.980	0.00	0.00	6
O LEU B 2 -3.958 12.694 -8.188 0.00 0.00 8 N VAL B 2 -3.937 12.963 10.035 0.00 0.00 7 CA VAL B 2 -3.267 11.527 -10.582 0.00 0.00 6 CB VAL B 2 -4.193 11.094 -11.743 0.00 0.00 6 C VAL B 2 -1.659 11.300 -11.386 0.00 0.00 6 C VAL B 2 -1.669 9.791 -1.0859 0.00 0.00 6 C VAL B 2 -1.629 11.100 10.856 0.00 0.00 6 C VAL B 2 -1.627 11.891 10.00 0.00 6 C CHE B 2 -1.636 11.151 0.00 0.00 6 <td>С</td> <td>LEU</td> <td>В</td> <td>2</td> <td>-0.754</td> <td>14.976</td> <td>-8.775</td> <td>0.00</td> <td>0.00</td> <td>6</td>	С	LEU	В	2	-0.754	14.976	-8.775	0.00	0.00	6
O LEU B 2 -3.958 12.694 -3.188 0.00 0.00 8 CA VAL B 2 -3.267 11.527 -10.582 0.00 0.00 6 CB VAL B 2 -4.193 11.094 -11.743 0.00 0.00 6 CB VAL B 2 -4.193 11.094 -11.743 0.00 0.00 6 C VAL B 2 -1.669 9.791 -10.885 0.00 0.00 6 C VAL B 2 -1.669 9.791 -10.885 0.00 0.00 6 C VAL B 2 -1.669 9.791 -10.885 0.00 0.00 6 C VAL B 2 -1.669 9.791 -10.885 0.00 0.00 6 C GLY B 2 -1.450 11.452 -1.119 0.00			В	2	-3.657	13.429	-9.133	0.00	0.00	6
N VAL B 2 3.337 12.963 1.0.335 0.00 0.00 7 CA VAL B 2 3.267 11.527 10.582 0.00 0.00 6 CE VAL B 2 3.845 11.841 13.021 0.00 0.00 6 C VAL B 2 3.845 11.841 13.021 0.00 0.00 6 C VAL B 2 3.845 11.841 13.021 0.00 0.00 6 C VAL B 2 1.669 9.791 10.859 0.00 0.00 6 O VAL B 2 1.669 9.791 10.859 0.00 0.00 6 O VAL B 2 0.427 11.891 11.202 0.00 0.00 6 C C C C C C C C C	_		В	2	-3.958	12.694	-8.188	0.00	0.00	8
CA VAL B 2 -3.267 11.527 -10.582 0.00 0.00 6 CB VAL B 2 -4.193 11.094 -11.743 0.00 0.00 6 C VAL B 2 -3.845 11.841 -13.021 0.00 0.00 6 C VAL B 2 -1.870 11.009 10.886 0.00 0.00 6 C VAL B 2 -1.669 9.791 -10.859 0.00 0.00 8 N GLY B 2 0.427 11.452 -11.517 0.00 0.00 6 C GLY B 2 1.485 11.1452 0.00 0.00 6 C GLY B 2 1.365 11.158 0.00 0.00 6 C PHE B 2 2.356 11.318 8.806 0.00 0.00 7	_			2			-10.335	0.00	0.00	7
CB			_				-10.582	0.00	0.00	6
C VAL B 2 .5.657 11.300 .11.386 0.00 0.00 6 C VAL B 2 .3.845 11.841 .13.021 0.00 0.00 6 C VAL B 2 .1.669 9.791 .10.859 0.00 0.00 6 O VAL B 2 .1.669 9.791 .10.859 0.00 0.00 8 N GLY B 2 .0.927 11.891 11.202 0.00 0.00 6 C GLY B 2 .1.485 12.468 .11.115 0.00 0.00 6 C GLY B 2 .1.485 12.468 .11.115 0.00 0.00 6 O GLY B 2 .1.890 13.678 .11.198 0.00 0.00 6 O GLY B 2 .1.890 13.678 .11.198 0.00 0.00 6 C GLY B 2 .1.890 13.678 .11.198 0.00 0.00 6 C GLY B 2 .1.890 13.678 .11.198 0.00 0.00 6 C PHE B 2 .3.762 12.806 .10.922 0.00 0.00 6 C PHE B 2 .3.765 13.148 .8.866 0.00 0.00 6 C PHE B 2 .5.382 15.057 9.078 0.00 0.00 6 C PHE B 2 .5.382 15.057 9.078 0.00 0.00 6 C PHE B 2 .6.443 15.824 8.636 0.00 0.00 6 C PHE B 2 .6.550 14.500 6.648 0.00 0.00 6 C PHE B 2 .5.070 12.117 10.674 0.00 0.00 6 C PHE B 2 .5.070 12.117 10.674 0.00 0.00 6 C PHE B 2 .5.341 11.005 10.022 0.00 0.00 6 C PHE B 2 .5.341 11.005 10.022 0.00 0.00 6 C PHE B 2 .5.341 11.005 10.022 0.00 0.00 6 C PHE B 2 .5.885 13.171 10.674 0.00 0.00 6 C PHE B 2 .5.895 13.171 10.674 0.00 0.00 6 C GLY B 2 .8.183 13.554 11.598 0.00 0.00 6 C PHE B 2 .5.895 13.170 10.90 0.00 6 C PHE B 2 .5.895 13.170 10.574 0.00 0.00 6 C PHE B 2 .5.895 13.171 10.674 0.00 0.00 6 C PHE B 2 .5.895 13.171 10.674 0.00 0.00 6 C D C C C C C C C C C C C C C C C C C C								0.00	0.00	6
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N			В	2	18,226	13.269	-14,814	0.00	0.00	
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CB ASP B 2 19.708 16.779 -16.645 0.00 0.00 6 C ASP B 2 18.425 17.292 -17.259 0.00 0.00 6 O ASP B 2 17.466 16.505 -17.390 0.00 0.00 8 O ASP B 2 18.399 18.493 -17.601 0.00 0.00 6 O ASP B 2 21.019 14.838 -15.912 0.00 0.00 6 O ASP B 2 21.535 14.204 -16.831 0.00 0.00 8 N ALA B 2 21.673 15.143 -14.796 0.00 0.00 7 CA ALA B 2 23.097 13.220 -14.305 0.00 0.00 6 CB ALA B 2 23.992 15.113 -15.764 0.00<	_		_	_		_	-16.043	0.00	0.00	6
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CA	TYR	В	2	24.503	16,907	-17.311	0.00	0.00	6
CB	TYR	В	2	23,451	17.038	-18.431	0.00	0.00	6
	TYR	В	2	24.048	17.513	-19.738	0.00	0.00	6
C_						20.552	0.00	0.00	6
C	TYR	В	2	24,764	16,646				_
CE	TYR	В	2	25.328	17.085	-21.735	0.00	0.00	6
	TYR_	В	2	23.920	18.836	-20.138	0.00	0.00	6
CE	TYR	В	2	24.481	19,285	-21.317	0.00	0.00	6
ÇZ	TYR	В	2	25.184	18.403	-22,110	0.00	0.00	6
ō	TYR	В	2	25.745	18.844	-23.288	0.00	0.00	8
	TYR	В	2	25.213	18.225	-17,058	0.00	0.00	6
C						-16,980	0.00	0.00	8
0	TYR	В	2	26.443	18,260			0.00	7
N_	HIS	В	2	24.468	19,317	-16,925	0.00		
CA	HIS	В	2	25.063	20,628	-16.677	0.00	0.00	6
CB	HIS	В	2	25.120	21.431	-17.973	0.00	0.00	6
С	HIS	В	2	25.949	22.675	-17.927	0.00	0.00	6
Č_	HIS	В	2	27.279	22.868	-18.087	0.00	0.00	6
	HIS	В	2	25.406	23.923	-17,701	0.00	0.00	7
N_					24.831	-17.719	0.00	0.00	6
CE	HIS	В	2	26,363			0.00	0.00	7
N	HIS	В	2	27,510	24.217	·17.952			_
C_	HIS	В	2	24.288	21.375	-15.598	0.00	0.00	6
	HIS	В	2	23.085	21.157	-15.436	0.00	0.00	8
N	MET	В	2	24.946	22.292	-14.889	0.00	0.00	7
CA	MET	В	2	24.297	23.020	-13.806	0.00	0.00	6
CB	MET	В	2	25.284	23,763	-12.915	0.00	0.00	6
C	MET	В	2	26.479	24.423	-13.565	0.00	0.00	6
_		В	2	27.340	25.556	-12.453	0.00	0.00	1
SD	MET	_				-11.990	0.00	0.00	6
CE	MET	В	2	28,762	24,575			0.00	6
C	MET	В	2	23.192	23.954	-14.283	0.00		_
0	MET	В	2	22.242	24.177	-13.521	0,00	0.00	8
N	THR	В	2	23,280	24.496	-15.491	0.00	0,00	7
CA	THR	В	2	22,249	25.396	-15.991	0.00	0.00	6
CB	THR	В	2	22,776	26.836	-16.144	0.00	0.00	6
0	THR	В	2	24.147	26.806	-16,565	0.00	0.00	8
Č	THR	В	2	22.665	27.584	-14.824	0.00	0.00	6
č	THR	В	2	21,657	24,943	-17.318	0.00	0.00	6
_		_	2	20.454	25.103	.17.539	0.00	0.00	8
0_	THR	B				-18.196	0.00	0.00	7
N_	SER	B	2	22,480	24.384				6
CA	SER	B	2	22.012	23.923	-19,495	0.00	0.00	_
CB	SER	B	2	23.128	24.054	-20.538	0.00	0.00	6
0	SER	B	2	23,448	25.410	·20,790	0.00	0.00	8
C	SER	В	2	21.533	22.477	-19,459	0.00	0.00	6
0	SER	В	2	22.118	21.612	-18.811	0.00	0.00	8
N	PRO	В	2	20.485	22.196	-20.221	0.00	0.00	7
Ċ	PRO	В	2	19.715	23.172	-21.033	0.00	0.00	6
	PRO	B	2	19,932	20.860	-20.357	0.00	0.00	6
CA						-20.623	0,00	0.00	6
CB	PRO.	B	2	18,460	21,148				6
C	PRO	B	2	18.445	22.437	-21.365	0.00	0.00	_
C	PRO	B	2	20.565	20.112	-21.518	0.00	0.00	6
0	PRO	В	2	21.197	20.714	-22,390	0.00	0.00	8
N	PRO	В	2	20.414	18.795	-21.539	0.00	0.00	7
C	PRO	В	2	19.641	18.000	-20.560	0.00	0.00	6
CA	PRO	В	2	20.896	17.984	-22.643	0.00	0.00	6
UA									6
Cr				20 726	16 551	.22 172	0.00	10.00	
CB	PRO	В	2	20.726	16.551	-22.173	0.00	0.00	
C	PRO PRO	B B	2	19.915	16.576	-20.935	0.00	0.00	6
_	PRO PRO	B B	2 2 2	19.915 20.079	16.576 18.275	-20.935 -23.889	0.00	0.00	6
C	PRO PRO	B B	2	19.915	16.576	-20.935 -23.889 -23.831	0.00 0.00 0.00	0.00 0.00 0.00	6 6 8
CC	PRO PRO	B B	2 2 2	19.915 20.079	16.576 18.275	-20.935 -23.889	0.00	0.00 0.00 0.00	6
0002	PRO PRO PRO	B B B	2 2 2 2	19.915 20.079 18.844	16.576 18.275 18.264	-20.935 -23.889 -23.831	0.00 0.00 0.00	0.00 0.00 0.00	6 6 8
CCONC	PRO PRO PRO GLU GLU	B B B B B	2 2 2 2 2 2	19.915 20.079 18.844 20.721 20.025	16.576 18.275 18.264 18.449 18.704	-20.935 -23.889 -23.831 -25.038 -26.299	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 8 7
C C O N CA CB	PRO PRO PRO GLU GLU GLU	B B B B B	2 2 2 2 2 2 2	19.915 20.079 18.844 20.721 20.025 21.031	16.576 18.275 18.264 18.449 18.704 18.855	-20.935 -23.889 -23.831 -25.038 -26.299 -27.441	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 8 7 6
C C O N CA CB C	PRO PRO PRO GLU GLU GLU GLU	B B B B B B	2 2 2 2 2 2 2 2	19.915 20.079 18.844 20.721 20.025 21.031 22.096	16.576 18.275 18.264 18.449 18.704 18.855 19.912	-20.935 -23.889 -23.831 -25.038 -26.299 -27.441 -27.188	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	6 8 7 6 6
C C O N CA CB C	PRO PRO PRO GLU GLU GLU GLU GLU	B B B B B B	2 2 2 2 2 2 2 2 2	19.915 20.079 18.844 20.721 20.025 21.031 22.096 22.372	16.576 18.275 18.264 18.449 18.704 18.855 19.912 20.788	-20.935 -23.889 -23.831 -25.038 -26.299 -27.441 -27.188 -28.392	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	6 8 7 6 6 6
C O N CA CB C	PRO PRO PRO GLU GLU GLU GLU GLU GLU	B B B B B B B	2 2 2 2 2 2 2 2 2 2 2	19.915 20.079 18.844 20.721 20.025 21.031 22.096 22.372 23.395	16.576 18.275 18.264 18.449 18.704 18.855 19.912 20.788 20.565	-20.935 -23.889 -23.831 -25.038 -26.299 -27.441 -27.188 -28.392 -29.075	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	6 8 7 6 6 6 8
C C O N CA CB C	PRO PRO PRO GLU GLU GLU GLU GLU	B B B B B B	2 2 2 2 2 2 2 2 2	19.915 20.079 18.844 20.721 20.025 21.031 22.096 22.372	16.576 18.275 18.264 18.449 18.704 18.855 19.912 20.788	-20.935 -23.889 -23.831 -25.038 -26.299 -27.441 -27.188 -28.392	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	6 8 7 6 6 6

				10001		07.146	0.00	0.00	
0	GLU	B	2	17.914	17.862	-27.146 -26.211	0.00	0.00	7
N	ASN	B B	2	19.270 18.435	16.400 15.232	-26,211	0.00	0.00	6
CA CB	ASN ASN	В	2	19.172	14.173	-25.349	0.00	0.00	6
C	ASN	В	2	18.845	12.748	-25,717	0.00	0.00	6
ŏ	ASN	В	2	19.753	11.936	-25,906	0.00	0.00	8
N	ASN	В	2	17.563	12.424	-25.817	0.00	0,00	7
С	ASN	В	2	17.071	15,424	-25,550	0.00	0.00	6
0	ASN	В	2	16.066	14.871	-25.996	0.00	0.00	8
N	GLY	В	2	17.065	16.049	-24.372	0,00	0.00	7
CA	GLY	В	2	15.866	16.222	-23.566	0.00	0.00	6
C	GLY	В	2	15.598	14.984	-22.712	0.00	0,00	6
0_	GLY	В	2	14.492	14.758	-22,223	0.00	0.00	8
N	ALA	В	2	16.622	14.173	-22.501	0.00	0.00	7
CA	ALA	В	2	16.575	12.927	-21.771	0.00	0.00	6
CB	ALA	В	2	17.997	12.361	-21.662	0.00	0.00	6
C_	ALA	В	2	15.955	12,959	-20.385	0.00	0.00_	8
0_	ALA	В	2	15.249	12.014	-20.012 -19.564	0.00	0.00	7
N	GLY	В	2_	16.284	13.950 14.032	-18.215	0.00	0.00	6
CA	GLY	B B	2	15.732 14.264	14.437	-18.254	0.00	0.00	6
C		В	2	13.456	13.967	-17.452	0.00	0.00	8
N	GLY	В	2	13.921	15.313	-19.193	0.00	0.00	7
CA	ALA	В	2	12.549	15.782	-19.358	0.00	0.00	6
CB	ALA	В	2	12.508	16.914	-20.373	0.00	0.00	6
C	ALA	В	2	11.638	14,633	-19.775	0.00	0.00	6
ō	ALA	В	2	10.537	14,466	-19.251	0.00	0.00	8
N	ALA	В	2	12,125	13.781	-20.672	0.00	0.00	7
CA	ALA.	В	2	11.409	12.585	-21.094	0,00	0,00	6
CB	ALA	В	2	12.212	11.839	-22,151	0.00	0.00	6
С	ALA	В	2	11.158	11.665	-19.904	0.00	0,00	6
0	ALA	B	2	10,040	11,206	-19.674	0.00	0.00	8 7
N	LEU	В	2	12,207	11.418	-19,123 -17,944	0.00	0.00	6
CA	LEU	B	2	12.127 13.483	10.568 10.549	-17.234	0,00	0.00	6
CB C_	LEU	В	2	14.093	9.186	-16.906	0.00	0.00	6
c	LEU	В	2	15,393	9.365	-16.133	0,00	0.00	6
Č	LEU	В	2	13.122	8.312	-16.125	0.00	0.00	6
Č	LEU	В	2	11.044	11.001	-16.966	0.00	0.00	6
0	LEU	В	2	10.249	10.182	-16.499	0.00	0.00	8
N	ALA	В	2	10.992	12.293	-16.648	0.00	0.00	7
CA	ALA	В	2	9.989	12.831	-15.736	0.00	0.00	6
CB	ALA	В	2	10.311	14.279	-15,395	0.00	0.00	6
<u></u>	ALA	В	2	8.580	12,703	-16.305	0.00	0.00	6
0_	ALA	B	2	7,642	12.413	-15,555	0.00	0.00	8
N	MET	B	2	8,424	12.909	-17.614 -18.239	0.00	0.00	6
CA	MET	B	2	7.111	12.712	-19.636	0.00	0.00	6
CB	MET	B	2	7.126	14.834	-19.637	0.00	0.00	6
SD	MET	B	2	6.856	15.558	-21.262	0.00	0.00	1
CE	MET	В	2	8.526	15.634	-21.899	0.00	0.00	6
C	MET	B	2	6.802	11.220	-18.214	0.00	0.00	6
ŏ	MET	В	2	5.763	10,790	-17.711	0.00	0.00	8
N	ALA	В	2	7,773	10,402	-18.613	0.00	0.00	7
CA	ALA	В	2	7.647	8,952	-18.540	0.00	0.00	6
СВ	ALA	В	2	8.954	8,281	-18.938	0,00	0.00	6
C	ALA	В	2	7.235	8.493	-17.145	0.00	0.00	6
0	ALA	В	2	6.285	7.716	-17.030	0.00	0.00	8
N	ASN	В	2	7.901	8.968	-16.094	0.00	0.00	17
CA	ASN	В	2	7.583	8,566	-14.733	0.00	0.00	16
CB	ASN	B	2	8.627	9.075	-13.730	0.00	0.00	6
lc-	ASN	F	12	9,949	8.343	-13.851	0.00	0.00	8
0	ASN	B	12	9,990	7.167	-14.216 -13.551	0.00		17
N	ASN	В	12	11.042	9.034	1-10.001	1 0,00	1 0.00	

С	ASN	В	2	6.197	8.998	-14.279	0.00	0.00	6
ö	ASN	В	2	5.503	8.220	-13.619	0.00	0.00	8
N	ALA	В	2	5.777	10.216	-14.603	0.00	0.00	7
CA	ALA	В	2	4.454	10.699	-14.218	0.00	0.00	6
	ALA	В	2		12.172	-14.556	0.00	0.00	6
CB				4.306	9.877	-14.905	0.00	0.00	6
Š	ALA	В	2	3,368					8
0	ALA	В	2	2.352	9.517	-14.309	0.00	0.00	
N.	LEU	В	2	3.579	9.576	-16.183	0.00	0.00	7
CA	LEU	В	2	2.697	8.712	-16.953	0.00	0.00	6
CB	LEU	В	2	3.249	8.513	-18.366	0.00	0.00	6
C.	LEU	В.	2	3.101	9.673	-19.350	0.00	0.00	6
С	LEU	В	2	3.754	9,327	-20,681	0.00	0.00	6
C	LEU	В	2	1,639	10.039	-19,560	0.00	0,00	6
С	LEU	В	2	2,529	7.358	-16.271	0,00	0.00	6
0	LEU	В	2	1.414	6.913	-16.001	0.00	0.00	8
N_	ARG	B_	2	3.649	6.713	-15.949	0.00	0.00	7
CA	ARG	В	2	3.632	5.420	-15.266	0.00	0,00	6
ÇB	ARG	В	2	5.055	4.885	-15,124	0.00	0,00	6
C	ARG	В	2	5.269	3.835	-14.048	0.00	0.00	6
c	ARG	В	2	6.689	3.295	-14.066	0.00	0.00	6
N	ARG	В	2	7.635	4.187	-13.408	0.00	0.00	7
CZ	ARG	В	2	8.956	4.067	-13,453	0.00	0.00	6
N	ARG	В	2	9.524	3.079	-14.131	0.00	0.00	7
N	ARG	В	2	9.724	4.941	-12.814	0.00	0.00	7
C.	ARG	В	2	2.935	5.532	-13.917	0.00	0.00	6
ŏ	ARG	В	2	2.078	4.719	-13,573	0,00	0.00	8
Ň	ASP	В	2	3.191	6.610	-13,186	0.00	0.00	7
CA	ASP	В	2	2.559	6.904	-11.916	0.00	0.00	6
CB	ASP	В	2	3.171	8.182	-11.323	0.00	0.00	6
C	ASP	В	2	2.856	8.314	-9.846	0.00	0.00	6
ŏ	ASP	В	2	2.518	9.432	-9.411	0.00	0.00	8
0	ASP	В	2	2.940	7.293	-9.132	0.00	0.00	8
C	ASP	В	2	1.046	7.058	-11.994	0.00	0.00	6
	ASP	В	2	0.359	6.775	-11.009	0.00	0.00	8
윿	ALA	В	2	0.513	7.523	-13,118	0.00	0.00	7
N QA			Ī			-13.301	0.00	0.00	6
CA	ALA	В	2	-0.922	7.681	-14.135	0.00	0.00	6
CB	ALA	В	2	-1.223	8.916	-13.964	0.00	0.00	6
<u>c</u>	ALA	В	2	-1.516	6,439		0.00	0.00	8
<u> </u>	ALA	В	2	-2.692	6.123	-13.796	0.00	0.00	7
N.	GLY	В	2	-0,686	5.728	-14,719			_
CA	GLY	В	2	-1,103	4.503	·15.387	0.00	0.00	6
C	GLY	B	2	-1.918	4.797	-16.638	0.00	0.00	6
0	CLY	В.	2	-2.958	4.188	-16.884	0.00	0.00	8
N	ILE	В.	2_	-1.489	5.803	-17.390	0,00	0.00	7
CA	ILE	В	2	-2,135	6.185	-18.635	0.00	0.00	6
CB	ILE	В.	2	-2.941	7.490	-18.545	0,00	0.00	6
Ç.	ILE	В	2	-4.284	7.276	-17.859	0.00	0.00	6
<u>c</u>	ILE	В	2	-2.148	8.580	17.820	0.00	0.00	6
C	ILE	В	2	-2.581	9.986	·18.178	0.00	9,00	6_
С	ILE	В	2	-1.054	6.345	-19.704	0.00	0.00	6
0	ILE	В	2	0.106	6.569	-19.357	0.00	0.00	8
N_	GLU	В	2	-1.433	6.212	-20.968	0.00	0.00	7
CA	GLU	В	2	-0.451	6.387	-22.040	0.00	0.00	6
CB	GLU	В	2	-0.771	5.479	-23.223	0.00	0.00	6
C	GLU	В	2	-0.617	3.998	-22,905	0.00	0.00	6
C	GLU	В	2	-0.460	3.145	-24.149	0.00	0.00	6
0	GLU	В	2	-1.287	2.230	-24.354	0.00	0,00	8
ŏ	GLU	В	2	0.491	3.388	-24.922	0.00	0.00	8
č	GLU	В	2	-0.401	7.855	-22,436	0.00	0.00	6
ŏ	GLU	В	2	-1.285	8.634	-22.071	0.00	0,00	8
	ALA	В	2	0.594	8.245	-23,220	0.00	0.00	7
		_ب	4	0,054					
N		B	2	0.770	1 Q 620	-23 657	เกดก	1 (1 (10)	16
	ALA ALA	B	2	0.770 2.109	9.620 9.745	-23.657 -24.387	0.00	0.00	6

O ALA B 2 - 0.518 11,392 .24,609 0.00 0.00 8 N SER B 2 - 1.137 9.337 .25,190 0.00 0.00 6 CB SER B 2 - 2.220 9.753 .26,061 0.00 0.00 6 CB SER B 2 - 3.518 10,76 .25,337 0.00 0.00 6 C SER B 2 - 3.518 10,76 .25,337 0.00 0.00 6 C SER B 2 - 3.518 10,76 .25,337 0.00 0.00 6 C SER B 2 - 3.518 10,076 .25,337 0.00 0.00 6 C SER B 2 - 3.518 10,076 .25,337 0.00 0.00 6 C SER B 2 - 3.518 10,363 .25,965 0.00 0.00 6 C GLN B 2 - 4.668 10,363 .23,192 0.00 0.00 6 C GLN B 2 - 4.668 10,363 .23,192 0.00 0.00 6 C GLN B 2 - 5.411 8.026 .22,514 0.00 0.00 6 C GLN B 2 - 5.411 8.026 .22,514 0.00 0.00 6 C GLN B 2 - 5.411 8.026 .22,514 0.00 0.00 6 C GLN B 2 - 4.244 6.019 .21,837 0.00 0.00 6 C GLN B 2 - 4.244 6.019 .21,837 0.00 0.00 .7 C GLN B 2 - 4.523 11,789 .22,655 0.00 0.00 .8 N ILE B 2 - 3.356 12,376 .22,523 0.00 0.00 .6 C ILE B 2 - 3.562 12,376 .22,523 0.00 0.00 .6 C ILE B 2 - 1.568 13,957 .22,290 0.00 0.00 6 C ILE B 2 - 1.688 13,957 .22,207 0.00 0.00 6 C ILE B 2 - 1.688 13,362 .19,702 0.00 0.00 6 C ILE B 2 - 1.688 13,362 .19,702 0.00 0.00 6 C ILE B 2 - 3.456 18,156 .24,339 0.00 0.00 6 C GLY B 2 - 3.456 18,156 .25,478 0.00 0.00 6 C GLY B 2 - 3.426 18,156 .25,478 0.00 0.00 6 C GLY B 2 - 3.426 18,156 .25,478 0.00 0.00 6 C GLY B 2 - 3.426 18,156 .25,478 0.00 0.00 6 C TYR B 2 - 3.426 18,156 .25,478 0.00 0.00 6 C TYR B 2 - 3.426 18,156 .25,478 0.00 0.00 6 C TYR B 2 - 3.426 18,156 .25,478 0.00 0.00 6 C TYR B 2 - 3.426 18,156 .25,478 0.00 0.00 6 C TYR B 2 - 3.426 18,156 .25,478 0.00 0.00 6 C TYR B 2 - 3.426 18,156 .25,478 0.00 0.00 6 C TYR B 2 - 1.668 19,003 .21,196 0.00 0.00 6 C TYR B 2 - 1.668 19,003 .21,196 0.00 0.00 6			_	,						
CA SER B 2 2-2.220 9.753 -26.061 0.00 0.00 6 CB SER B 2 -2.484 8.658 -27.106 0.00	0	ALA	В	2	-0.518	11.392	-24.609	0.00	0.00	8
CB SER B 2 -2.484 8.658 -27.106 0.00 0.00 6	_			_				_		_
O SER B 2 -3.091 7.533 -26.492 0.00 0.00 8 C SER B 2 -3.518 10.076 -25.337 0.00 0.00 0.00 0.00 8 O SER B 2 -4.542 10.359 -25.955 0.00 0.00 7 CA GLN B 2 -3.681 10.363 -23.192 0.00 0.00 6 CB GLN B 2 -5.411 8.026 -22.514 0.00 0.00 6 CG GLN B 2 -5.194 6.897 -21.531 0.00 0.00 .00 6 CGLN B 2 -5.431 1.1789 -22.658 0.00 0.00 .00 6 GLN B 2 -4.533 11.2355 -22.523 0.00 0.00 6 GLN B 2 -3.356 12.3745				_						_
C SER B 2 -3.518 10.076 -25.337 0.00 0.00 6 O SER B 2 -4.542 10.359 -25.965 0.00 0.00 0.00 0.00 7 CA GLN B 2 -4.668 10.363 -23.192 0.00 0.00 6 CB GLN B 2 -4.827 9.353 -22.514 0.00 0.00 6 C GLN B 2 -5.194 8.026 -22.514 0.00 0.00 0.00 6 C GLN B 2 -5.872 6.804 -20.506 0.00 0.00 0.00 6 C GLN B 2 -5.433 11.789 -22.658 0.00 0.00 6 G GLN B 2 -5.433 11.2355 -22.553 0.00 0.00 6 GILE B 2 -1.56	CB	SER	В		-2.484	8.658		0.00	0.00	_
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O VAL B 3 1.617 22.189 -22.675 0.00 0.00 8 N ASN B 3 1.213 21.932 -20.480 0.00 0.00 7 CA ASN B 3 1.764 23.246 -20.122 0.00 0.00 6 CB ASN B 3 1.564 25.203 -18.499 0.00 0.00 6 C ASN B 3 0.786 25.339 -17.946 0.00 0.00 8 N ASN B 3 3.278 23.030 -20.032 0.00 0.00 7 C ASN B 3 3.278 23.030 -20.032 0.00 0.00 6 O ASN B 3 3.774 22.358 -19.130 0.00 0.00 6 O ASN B 3 3.984 23.535 -21.029 0.00	C	VAL	В	3	1,288	21,478	-21.725	0.00	0.00	6
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CA ASN B 3 1.764 23.246 -20.122 0.00 0.00 6 CB ASN B 3 1.188 23.777 -18.828 0.00 0.00 6 C ASN B 3 1.564 25.203 -18.499 0.00 0.00 6 O ASN B 3 0.786 25.203 -18.499 0.00 0.00 0 0 N ASN B 3 2.755 25.399 -17.946 0.00 0.00 7 C ASN B 3 3.278 23.030 -20.032 0.00 0.00 6 Q ASN B 3 3.774 22.358 -19.130 0.00 0.00 7 CA ALA B 3 5.415 23.350 -21.029 0.00 0.00 6 CB ALA B 3 5.829 23.721 -22.576			В	3	1.213	21.932	-20.480	0.00	0.00	7
CB ASN B 3 1.188 23.777 -18.828 0.00 0.00 6 C ASN B 3 1.564 25.203 -18.499 0.00 0.00 6 O ASN B 3 0.786 26.131 -18.730 0.00 0.00 8 N ASN B 3 2.755 52.399 -17.946 0.00 0.00 6 C ASN B 3 3.774 22.358 -19.130 0.00 0.00 8 N ALA B 3 5.415 23.350 -21.029 0.00 0.00 6 CA ALA B 3 5.415 23.350 -21.148 0.00 0.00 6 CB ALA B 3 5.829 23.721 -22.576 0.00 0.00 6 CB ALA B 3 5.771 25.171 -19.637 0.00										6
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CB HIS B 3 9.687 23,805 -18.825 0.00 0.00 6	N	HIS	В	3	7.513	23,777	-20.037	0.00	0.00	7
	ÇA	HIS	В	3	8.425	24.569	-19.205	0.00	0.00	6
	CB	HIS	В	3	9.687	23,805	-18.825	0.00	0.00	6
								0.00	0.00	6

Figure 1 - 41

C	HIS	В	3	10.390	25.210	<u>-16.758</u>	0.00	0.00	6
N	HIS	В	3	11.903	24.910	-18.306	0.00	0.00	7
CE	HIS	В	3	12,452	25.651	-17.361	0.00	0.00	6
		В	3	11.555	25.849	-16.411	0.00	0.00	7
N	HIS		_				0.00	0.00	6
C	HIS	В	3	8.713	25.840	-20.012			_
0_	HIS	В	3	8.552	26.963	-19.544	0.00	0.00	8
	GLY	В	3	8.959	25.668	-21.304	0.00	0.00	7
CA	GLY	В	3	9.110	26,699	-22.298	0.00	0.00	6
C	GLY	В	3	9.520	28.073	-21.817	0.00	0.00	6
ŏ	GLY	В	3	8.705	29.001	-21.787	0.00	0.00	8
						-21.485	0.00	0.00	7
N	THR	В	3	10.795	28,256				6
CA	THR	В	3	11.269	29.531	-20.965	0.00	0.00	
CB	THR	В	3	12.393	29.318	-19.926	0.00	0,00	6
0	THR	В	3	13.417	28.495	-20.489	0.00	0.00	8
С	THR	В	3	11.814	28,661	-18.686	0.00	0.00	6
č		В	3	11.749	30.530	-21.994	0.00	0.00	6
_	THR					-21.621	0.00	0.00	8
0_	THR	В	3	11.989	31,682				7
N.	SER	В	3_	11.871	30.151	-23,253	0.00	0.00	_
CA	SER	В	3_	12.296	31.048	-24.316	0.00	0,00	6
CB	SER	В	3	11.700	32,449	-24.195	0.00	0.00	6
0	SER	В	3	11.945	33.196	-25.377	0.00	0.00	8
C	SER	В	3	13.817	31.113	-24.425	0.00	0.00	6
					32.108	-24.845	0.00	0.00	8
Q.	SER	B	3	14.407	30.008	-24.054	0.00	0.00	7
N	THR	В	3	14.456				0.00	6_
CA	THR	В	3	15.905	29,885	-24.172	0.00		
CB	THR	B	3	16.565	29.275	-22.928	0.00	0.00	6
0	THR	В	3	15.830	28,108	-22.530	0,00	0.00	8
C	THR	В	3	16.593	30.277	-21.786	0.00	0.00	6
C	THR	В	3	16.187_	28.984	-25.372	0.00	0.00	6
ŏ	THR	B	3	15.513	27.968	-25.556	0.00	0.00	8
		В		17.140	29.376	-26,198	0.00	0.00	7
N_	PRO		3				0.00	0.00	6
C	PRO	B.	3	17.984	30.585	-26.036			
CA	PRO	B	3_	17,543	28.578	-27.343	0.00	0.00	6
CB	PRO	B	3_	18.871	29.194	-27.764	0.00	0.00	6
C	PRO	B	3_	18.799	30.609	-27.303	0.00	0,00	6
C	PRO	В	3_	17.675	27.110	-26,977	0.00	0.00	6
0	PRO	В	3	16.843	26.287	-27.366	0.00	0.00	8
N	ALA	В	3	18,660	26.778	-26.149	0.00	0.00	7
		_	3	18.923	25.406	-25.745	0.00	0.00	6
CA	ALA	B	_			-24.855	0.00	0.00	6
CB	ALA	B	3	20,164	25.368				6
C	ALA	B	3	17,765	24,708	-25.053	0.00	0.00	
0	ALA	<u>LB</u>	3	17.474	23.546	-25.367	0.00	0.00	8
N	GLY	В	3_	17,115	25.356	-24.096	0.00	0.00	17
CA	GLY	В	3	16.039	24.752	-23.333	0.00	0.00	6
C	GLY	В	3	14.786	24,429	-24,125	0.00	0.00	6
ŏ	GLX	В	3	14.189	23.363	-23.945	0.00	0,00	8_
_		_	_		25,321	-25.018	0.00	0.00	7
N	ASP	H.	3	14.369			0.00	0.00	6
CA	ASP	B	3_	13.160	25,124	-25.811			_
CB	ASP	Į₿.	3	12.801	26.400	-26.575	0.00	0.00	6
C	ASP	B	3	12.317	27.517	-25.673	0.00	0.00	6
0	ASP	В	3	11.991	28,602	-26.198	0.00	0.00	18
0	ASP	В	3	12.252	27.329	-24.441	0.00	0.00	8
Č	ASP	В	3	13.272	23.949	-26.771	0.00	0.00	6
		B	3	12.296	23.222	-26.962	0.00	0.00	8
0	ASP	_			23.739	-27.349	0.00	0.00	7
N	LYS	B	3	14.448				0.00	6
CA	LYS	B	3	14.693	22,623	-28.249	0.00		_
CB	LYS	B	3	16.065	22.758	-28,915	0.00	0.00	6
C	LYS	В	3	16.107	23.669	-30,127	0.00	0.00	16
C	LYS	В	3	17.541	23.929	-30.569	0.00	0.00	6
CE	LYS	В	3	18.008	22.874	-31.558	0.00	0.00	6
_		_	3	19.490	22.857	-31.699	0.00	0.00	7
NZ		₩.	_				0.00	0.00	6
C	LYS	<u>B</u>	3	14.643	21,283	-27.521		_	_
			13	14.092	20.306	-28.027	0.00	0.00	8
O N	LYS ALA	B	3	15.265	21,224	-26.346			7

CAL									
CA	ALA	В	3	15.321	19.999	-25.558	0.00	0.00	6
CB	ALA	В	3	16.151	20,211	-24,301	0,00	0.00	6
C	ALA	В	3	13.924	19.512	-25.199	0.00	0.00	6
0	ALA	B	3	13.580	18.357	-25,449	0.00	0.00	8
N	GLU	В	3	13.106	20.401	-24.642	0.00	0,00	7
CA	GLU	В	3	11.734	20,071	-24.292	0.00	0,00	6
CB	GLU	В	3	11.017	21.263	-23.650	0.00	0.00	6
C	GLU	В	3	9.583	20.941	-23.264	0,00	0.00	6
C	GLU	В	3	8.946	21.951	-22,340	0.00	0.00	6
0	GLU	<u>B</u>	3	9.409	23.108	-22.269	0.00	0.00	8
0	GLU	В	3_	7.952	21.571	-21.682	0.00	0.00	8
C	GLU	В	3	10.956	19.598	-25,515	0.00	0.00	6
0	GLU	В	3	10.335	18.535	-25.473	0,00	0.00	8
N	ALA	В.	3	11.030	20.340	-26.616	0.00	0.00	
CA	ALA	<u>B</u>	3	10.418	19.917	-27.874	0.00	0.00	6
CB	ALA	В	3	10.878	20.817	-29.012	0.00	0.00	6
ļÇ.	ALA	В	3	10,765	18.460	-28,169	0.00	0.00	8
	ALA	В	3	9.903	17.589	-28.253	0.00	0.00	7
М	GLN	В	3	12,057	18,168	-28.245	0.00	0.00	
CA	GLN	<u>B</u>	3	12.595	16.840	-28.467	0.00	0.00	6
CB	GLN	<u>B</u>	3	14,128	16.919	-28.418	0.00	0.00	6
C_	GLN	В	3	14.837	15.647	-28.840	0.00	0.00	6
C	GLN	В	3	14,676	15,342	-30.316	0.00	0.00	8
0	GLN	В	3	15.369	15.914	-31.156	0.00	0.00	7
N	GLN	В	3_	13.752	14.439	-30,630	0.00	0.00	6
C_	GLN	В	3	12.106	15.797	-27.473	0.00	0.00	8
0_	GLN	B	3	11.875	14.642	-27.844	0,00	0.00	7
N	ALA	IB.	3_	11.921	16.171	-26.211		0.00	6
CA	ALA	B	3	11,429	15.277	-25,178	0.00	0.00	6
CB	ALA	B	3	11.680	15.890	-23,803	0.00	0.00	6
Č.	ALA	B	3	9.950	14.942	-25.329 -24.874	0.00	0.00	8
<u>Ģ</u>	ALA	B	3	9.512 9.171	13.883 15.827	-25.938	0.00	0.00	7
N.	VAL	B	3	7.748	15.592	-26,168	0.00	0.00	6
CA	VAL	B	3	6.977	16.904	-26.378	0.00	0.00	6
C	VAL	В	3	5.548	16.665	-26.846	0,00	0.00	6
Č	VAL	В	3	6,973	17.714	-25.087	0.00	0,00	6
C	VAL	В	3	7.563	14.663	-27.364	0.00	0.00	6
ŏ	VAL		_	6.690	13.795				
N		IR.				1 -27.365	0.00	1 0.00	18
		B	3			-27.365 -28.349	0.00	0.00	7
	LYS	В	3	8.449	14.789	-28.349	0.00	0.00	
CA	LYS	B B	3	8.449 8.452	14.789 13,883	-28.349 -29.494	0.00	0.00	7
CA CB	LYS LYS LYS	B B	3 3	8.449 8.452 9.497	14.789 13,883 14.318	-28.349 -29.494 -30.523	0.00	0.00	7 6
CA CB C	LYS LYS LYS	B B B	3	8.449 8.452	14.789 13,883	-28.349 -29.494	0.00 0.00 0.00	0.00 0.00 0.00	7 6 6
CA CB C	LYS LYS LYS LYS	B B	3 3 3	8.449 8.452 9.497 9.016	14.789 13,883 14.318 15.457	-28.349 -29.494 -30.523 -31.412	0.00 0.00 0.00 0.00	0.00 0.00 0.00	7 6 6
CA CB C C	LYS LYS LYS LYS LYS	B B B	3 3 3 3	8.449 8.452 9.497 9.016 10.069	14.789 13.883 14.318 15.457 15.875	-28.349 -29.494 -30.523 -31.412 -32.425	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	7 6 6 6
CA CB C C CE NZ	LYS LYS LYS LYS LYS LYS LYS	B B B B B	3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515	14.789 13,883 14.318 15.457 15.875 16.820	-28.349 -29.494 -30.523 -31.412 -32.425 -33.459	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	7 6 6 6 6
CA CB C C CE NZ C	LYS LYS LYS LYS LYS LYS LYS LYS LYS	B B B B B B	3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698	14.789 13.883 14.318 15.457 15.875 16.820 17.393	-28.349 -29.494 -30.523 -31.412 -32.425 -33.459 -34.357	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	7 6 6 6 6 6 7
CA CB C C CE NZ C	LYS LYS LYS LYS LYS LYS LYS LYS LYS LYS	B B B B B	3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515	14.789 13.883 14.318 15.457 15.875 16.820 17.393 12.454	-28.349 -29.494 -30.523 -31.412 -32.425 -33.459 -34.357 -29.024	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	7 6 6 6 6 7 6
CA CB C C CE NZ C	LYS LYS LYS LYS LYS LYS LYS LYS LYS LYS	B B B B B B	3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698 7.916	14.789 13.883 14.318 15.457 15.875 16.820 17.393 12.454 11.547	-28.349 -29.494 -30.523 -31.412 -32.425 -33.459 -34.357 -29.024 -29.302	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7 6 6 6 6 7 6 8
CA CB C CE NZ C O N CA	LYS LYS LYS LYS LYS LYS LYS LYS THR	B B B B B B B	3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698 7.916 9.715	14.789 13.883 14.318 15.457 15.875 16.820 17.393 12.454 11.547 12.270	-28.349 -29.494 -30.523 -31.412 -32.425 -33.459 -34.357 -29.024 -29.302 -28.192	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7 6 6 6 6 7 6 8 7
CA CB C C CE NZ C	LYS LYS LYS LYS LYS LYS LYS LYS LYS LYS	B B B B B B B	3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698 7.916 9.715 10.094 11.373	14.789 13.883 14.318 15.457 15.875 16.820 17.393 12.454 11.547 12.270 10.986	-28.349 -29.494 -30.523 -31.412 -32.425 -33.459 -34.357 -29.024 -29.302 -28.192 -27.636	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7 6 6 6 6 7 6 8 7 6
CA CB C CE NZ C O N CA CB	LYS LYS LYS LYS LYS LYS LYS LYS THR THR	B B B B B B B B	3 3 3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698 7.916 9.715 10.094	14.789 13.883 14.318 15.457 15.875 16.820 17.393 12.454 11.547 12.270 10.986 11.151	-28.349 -29.494 -30.523 -31.412 -32.425 -33.459 -34.357 -29.024 -29.302 -28.192 -27.636 -26.782	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7 6 6 6 6 7 6 8 7 6 8 7 6
CA CB C CE NZ C O N CA CB	LYS LYS LYS LYS LYS LYS LYS LYS LYS THR THR THR	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698 7.916 9.715 10.094 11.373 12.357	14.789 13.883 14.318 15.457 15.875 16.820 17.393 12.454 11.547 12.270 10.986 11.151 11.863	-28.349 -29.494 -30.523 -31.412 -32.425 -33.459 -34.357 -29.024 -29.302 -28.192 -27.636 -26.782 -27.549	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7 6 6 6 6 7 6 8 7 6 8
CA CB C CE NZ C O N CA CB O C	LYS LYS LYS LYS LYS LYS LYS LYS LYS LYS	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698 7.916 9.715 10.094 11.373 12.357 11.945	14.789 13.883 14.318 16.457 15.875 16.820 17.393 12.454 11.547 12.270 10.986 11.151 11.863 9.806	-28.349 -29.494 -30.523 -31.412 -32.425 -34.357 -29.024 -29.024 -29.024 -27.636 -26.782 -27.549 -26.372	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7 6 6 6 6 7 6 8 7 6 8 6 8 8 8
CA CB C CE NZ C O N CA CB O C	LYS LYS LYS LYS LYS LYS LYS LYS LYS THR THR THR THR THR	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698 7.916 9.715 10.094 11.373 12.357 11.945 9.024	14.789 13.883 14.318 15.457 16.820 17.393 12.454 11.547 12.270 10.986 11.151 11.863 9.806	-28.349 -29.494 -30.523 -31.412 -32.425 -33.459 -34.357 -29.024 -29.302 -28.192 -27.636 -27.549 -26.782 -26.372 -26.372	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00	7 6 6 6 6 6 7 6 8 7 6 8 7 6 8 7
CA CB C CE NZ C O N CA CB O C C O N	LYS LYS LYS LYS LYS LYS LYS LYS LYS LYS	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698 7.916 9.715 10.094 11.373 12.357 11.945 9.024 8.948	14.789 13.883 14.318 15.457 15.875 16.820 17.393 12.454 11.547 12.270 10.986 11.151 11.863 9.806 10.301 9.067	-28.349 -29.494 -30.523 -31.412 -32.425 -34.357 -29.024 -29.302 -28.192 -27.636 -26.782 -26.372 -26.804 -26.804	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7 6 6 6 6 6 7 6 8 7 6 8 6 8 7 6 6
CA CB C CE NZ C O N CA CB C C C C C C C C C C C C C C C C	LYS LYS LYS LYS LYS LYS LYS LYS LYS LYS	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698 7.916 9.715 10.094 11.373 12.357 11.945 9.024 8.948	14.789 13.883 14.318 15.457 16.820 17.393 12.454 11.547 12.270 10.986 11.151 11.863 9.806 10.301 9.067	-28.349 -29.494 -30.523 -31.412 -32.425 -34.357 -29.024 -29.022 -28.192 -27.636 -26.782 -26.372 -26.804 -26.804 -26.068 -25.198 -25.198 -25.198	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00	7 6 6 6 6 7 6 8 7 6 8 6 8 6 6 6
CA CB C CC CC O N CA CB O C C C C C C C C C C C C C C C C C	LYS LYS LYS LYS LYS LYS LYS LYS LYS THR THR THR THR THR THR THR THR THR THR	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 10.916 9.715 10.094 11.373 12.357 11.945 9.024 8.948 8.212 7.196	14.789 13.883 14.318 16.457 15.875 16.820 17.333 12.454 11.547 12.270 10.986 11.151 11.863 9.806 10.301 9.067 11.0469	-28.349 -29.494 -30.523 -31.412 -32.425 -34.357 -29.024 -29.302 -28.192 -27.636 -26.782 -26.82 -26.804 -26.804 -26.804 -26.804 -26.908 -26.908 -26.908	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00	7 6 6 6 6 6 7 6 8 7 6 8 7 6 8 7 6 6 8 7 6 6
CA CB CC CC CC O O CA CB O C C C C C C C C C C C C C C C C C	LYS LYS LYS LYS LYS LYS LYS LYS LYS LYS	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698 7.916 9.715 10.094 11.373 12.357 11.945 9.024 8.948 8.212 7.196 7.000	14.789 13.883 14.318 16.457 15.875 16.820 17.393 12.454 11.547 12.270 10.986 11.151 11.863 9.806 10.301 9.067 11.046 10.469 11.363	-28.349 -29.494 -30.523 -31.412 -32.425 -34.357 -29.024 -29.022 -28.192 -27.636 -26.782 -26.372 -26.804 -26.804 -26.068 -25.198 -25.198 -25.198	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7 6 6 6 6 6 7 6 8 7 6 8 6 6 8 7 6 6 6 6
CA CB CC CE NZ C O N CA CB O C C C C C C C C C C C C C C C C C	LYS LYS LYS LYS LYS LYS LYS LYS LYS LYS	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698 7.916 9.715 10.094 11.373 12.357 11.945 9.024 8.948 8.212 7.196 7.000 5.898	14.789 13.883 14.318 16.457 15.875 16.820 17.333 12.454 11.547 12.270 10.986 11.151 11.863 9.806 10.301 9.067 11.0469 11.363 10.837 11.497 11.497	-28.349 -29.494 -30.523 -31.412 -32.425 -33.459 -34.357 -29.024 -29.302 -27.636 -26.782 -26.372 -26.804 -26.068 -25.198 -23.954 -23.954 -23.051 -23.051 -23.680 -23.051	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7 6 6 6 6 6 7 6 8 7 6 6 8 7 6 6 6 6 6 6
CA CB CC CC CC O N CA CB O C CC CC CC CC CC CC CC CC CC CC CC CC	LYS LYS LYS LYS LYS LYS LYS LYS LYS THR THR THR THR THR THR THR THR THR THR	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 8.698 7.916 9.715 10.094 11.373 12.357 11.945 9.024 8.948 8.212 7.196 7.000 5.898 8.317	14.789 13.883 14.318 16.457 15.875 16.820 17.393 12.454 11.547 12.270 10.986 11.151 11.863 9.806 10.301 9.067 11.046 10.469 11.363 10.837 11.497	-28.349 -29.494 -30.523 -31.412 -32.425 -33.459 -34.357 -29.024 -29.302 -28.192 -27.636 -26.782 -26.372 -26.804 -26.968 -25.198 -23.951 -23.951 -23.951 -23.183	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7 6 6 6 6 6 7 6 8 7 6 6 8 8 6 6 6 6 6 6
CA CB CC CC O N CA CB C C C C C C C C C C C C C C C C C	LYS LYS LYS LYS LYS LYS LYS LYS LYS LYS	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8.449 8.452 9.497 9.016 10.069 9.475 10.515 10.951 10.916 9.715 10.094 11.373 12.357 11.945 9.024 8.948 8.212 7.196 7.000 5.898 8.317 8.916	14.789 13.883 14.318 16.457 15.875 16.820 17.333 12.454 11.547 12.270 10.986 11.151 11.863 9.806 10.301 9.067 11.0469 11.363 10.837 11.497 11.497	-28.349 -29.494 -30.523 -31.412 -32.425 -33.459 -34.357 -29.024 -29.302 -27.636 -26.782 -26.372 -26.804 -26.068 -25.198 -23.954 -23.954 -23.051 -23.051 -23.680 -23.051	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7 6 6 6 6 6 7 6 8 7 6 6 8 7 6 6 6 6 6 6

				_	Т.	1.000	_		_			_			_
	A	PH		B	13			11.07		-27.28		0.0			6
C	В	PH		B	13		_	12.45		-27.45		0.0			6
C	-	PH	_	B	13		_	13.12	_	-26.14	_	0.0		_	6
lč		PH	_	B B	3	4.076	-	13.70		-25,37	_	0.0	_		6
C	_	PH		В	3	1.779 3.770	-	13.17 14.31		-25.70		0.0			6
Č		PH		В	3	1.464	-	13.79	-	-24.17	_	0.0	_		6
Č	_	PH	_	B	3	2.461	-			-24.50		0.0		_	6
C	4	PH		В	3	4.151	-	14.36		-23.74	_	0.0		_	6_
ŏ	7	PH		В	3	3.231	\dashv	10.32 9.594	9	-28,61		0.0			6
N	7	GL'	-	B	3	5.262		10.47	7	-28.97		0.0			8
Ċ.	A	GL	$\overline{}$	B	3	5.513	-	9.754	4	-29,32	_	0.00			7
C	`	GL		В	3	4.558	\dashv	10.07	,	-30.55 -31.68		0.00 0.00		+	6
ō	7	GL	_	B	3	4.725	┪	11.07		-32.38		0.00		+	6
N	7	GLI		В	3	3.556	7	9.216	~	-31.88	_	0.00	_	+	8 7
C	4	GLU	_	В	3	2.598	7	9.393	7	-32.97		0.00		+	6
CI		GLU	_	В	3	2.032	7	8.053	7	-33.44		0.00		┪	6
C	7	GLU		В	3	2.877	1	7.373	7	-34.51		0.00		+	6
C	Ī	GLU		В	3	3.606	7	6.164	7	-33.95	_	0.00		_	6
O	I	GLU		В	3	4.772	7	6.319	7	-33,53	_	0.00			8
0		GLI		В	3	3.007	7	5.069	7	-33.93		0.00		_	8
С		GLU	J	В	3	1.483	╗	10.355	5	-32.59		0.00		_	6
0		GLU	J	В	3	0.774	T	10.886		-33.445	_	0,00		_	8
N	1	ALA		В	3	1.335	I	10.608	_	-31.294		0.00			7
CA		ALA	1	В	3	0.337	Ι	11.535	ī	-30.782		0.00		_	6
CE		ALA		В	3	-0.199	Ι	11.071		-29.440	_	0.00		_	6
C		<u>ALA</u>	نك	В	3	0.940	1	12.935	\mathbf{I}	-30.676		0.00			6
		<u>ALA</u>		В	3	0,246	1	13.911	\perp	-30.394	I	00,0	0.00	\Box	В
N	4	ALA	ц	В	3	2.230		13.075		-30,953	ıΙc	0,00	0.00		7
CA		<u>ALA</u>		<u>8</u>	3	2.949	1	14.336	4	-30,925	0	.00	0.00	I	2
CB	_	<u>ALA</u>		3	3	4.334		14.165		-31.539		.00	0.00	1	3
lc.		ALA		4	3	2.209		<u> 15.465</u>		31.629	_	.00	0.00		1
ि		ALA	4		3	1.987		<u> 16.526</u>	4	31.034	_	.00	0.00	15	
N		SER	4	_	3	1.768		15.252	ļ	32,867	_	.00	0.00	Ţ,	_
CA		SER	I F		3	1.008		16.252	+	33.606	_	.00	0.00	46	_
CB O		SER SER	4		3	1.018		15.950	÷	35,105		.00	0.00	46	_
Č		SER	I E	_	3	0.886		14.563	÷	35.359		.00	0.00	18	
6	~	ER	T E	_	3	-0.427		16.377		33,107		.00	0.00	Į€	
N	_	RG	T.	_	3	-1.106		17.376		33.355		.00	0.00	18	
CA		LRG	Ti		3	-0.914 -2.250		15,383	7	32.386		00	0.00	+7	_
CB		LRG	T B	_	3	-2.645		15.345		31.814		00	0.00	16	
c	_	LRG	Ī	-	3	-3.931		3.879 3.549		<u>31.647</u> 30.920	-	00	0.00	16	_
C		RG	B	_	3	-4.037		2.040		30.737	_	00	0.00	6	+
N	_	RG	Ī	_	3	-5.283		1.607		30,126		00	0.00	7	Η.
CZ	_	RG	B		3	-5.609		0.334		29.913		00	0.00	6	┥.
N		RG	B		3	-4.782		.358		30.262		00.	0.00	7	┪
N		RG	В	_	3	-6.769	7	0.031		29.347	_	OC.	0.00	7	1
C	LA	RG	В	Ŀ	3	-2.340		6,094	7	30.491		00	0.00	6	1
0	A	RG	В	Ŀ	3	-3.429		6.526	$\overline{}$	30.105	_	00	0.00	8	7
N	V	'AL	В	Ŀ	3]	-1.225		6.271		29.789		00	0.00	7	7
CA	V	AL	B	13	<u> </u>	-1.214	1	6.946		28.496	0,	00	0,00	6	7
CB	V	AL	В	3	3	-0.281		6.203		27.515	0.0		0.00	6	٦
С		AL	В	3		1.175		6.291		7.947	0.0		0.00	6]
C		AL	В	13	_	-0.452	1	6.723		6.095	0.0		0.00	6]
C		AL.	B	13	1	-0.846	1	8,420	.2	8.545	0.0		0.00	6]
0		<u>AL</u>	B	3	_	0.085	1	8.843		9.227	0.0	_	0.00	8]
N		EU	B	13		-1.574	1	9.223	-2	7.770	0.0	00 T	0.00	7]
CA		EU	В	13	_	-1.349	20	0.659	-2	7.688	0,0	00	0.00	6]
CB		EU	B	3	_	-2.665	2	1.409		7.483	0.0		0.00	6]
C		EU	В	13	_	-3.897	20	0.934		8.254	0,0	00	0.00	6]
Ç	_	EU	В	3	_	5.090		1.833	<u>.2</u>	7,955	0.0	0	0.00	6]
č		EU	B	13		3.636		.891		9.751	0,0		0,00	6	1
C_	Ĺ	EU	В	3	Ŀ	-0.380	21	1.022	-2	6.566	0.0	ю	0.00	6	J

)]	LEI	J.	В	3	-0.56	20.6	70	-25.40	2 0.	00	0.00	1	8
	<i>i</i> 1	VAI	4	в∃	3	0.701	21.70		-26.93		00	0.00		7
C	AL	VAI	L	В	3	1.738	22.12	_	-26.00	_	00	0.00	$\overline{}$	6
<u>C</u>	BI	VAI	4 1	вТ	3	3.106	21.48	_	-26,33		00	0.00		6
Lo	: 1	VAI	. 1	вΤ	3	4.155	21.92		-25.31		00	0.00	$\overline{}$	6
C	2	ZAI	ıΠ	вΤ	3	3.050	19.97	_	-26.39		00	0.00	_	6
Г	1	/AI	. Ti	вΤ	3	1.924	23.63		-26.05	_	_	0.00		6
Г		/AI		3	3	2,463	24.12	_	-27.05		_	0.00	_	8
N		ER		$\overline{}$	3	1.641	24.35	_	-24.97	_	_	0.00		7
C	_	ER	_	-	3	1.861	25.80		-24.99	_	_			_
C	_	ER	_		3	0.530	26.54	_	-25.11	_		0.00		<u>6</u>
Ō	_	ER	_	_	3	-0.123			-23.86		_	0.00	_	6
C		ER		_	3	2.633	26.30		-23.77		_	0.00	$\overline{}$	8
ŏ		ER		_	3	2.595	25.72		-22.69			0.00		<u>6</u>
N		ER		_	3	3.333	27.41				_	0.00		8
Ĉ.		ER	_	_	3	4.047			-23.97	_	_	0.00	_	7
Č		ER	Ē	_	3	5,502	28,06		-22.88			0.00		<u>6</u>
ŏ	_	ER	B	_	3		28.34		-23.26			0.00	_	<u>6</u>
Č		ER	B	_	3	6.179	29.06		-22.245			0.00	_	8
ŏ		ER	B	_	3	3,344	29.36		-22.501			0.00	_	<u>6</u>
N		HR	_		-	3.392	30.35	_	-23.233			0.00		3_
Ċ.		HR	_	_	1	2.798	29.40	_	-21.284	_	$\overline{}$	0.00	_	7_
C		HR	B			2.153	30.61	-	-20.775			0.00		5_
Ö		HR	B	_	_	1.081	30.328	_	-19.712	_	_	0.00	16	
C		HR	B		_	1.607	29.50	_	<u>-18.667</u>			0.00	18	
Č			B	_	_	-0.111	29.623		-20.347			0.00	16	
Ö		HR HR	+₽ B	3	-	3.171	31.612		-20.240	_	_	0.00	- 16	_
N		YS	B	3		2.842	32,728	_	-19.840		_	0,00	8	
C.		YS	B	13		4.452	31.269	_	-20,300			0.00	17	_
CE			В	_	_	5.579	32.098	_	<u>-19.939</u>			0.00	16	-
C	Ľ		B	3	_	6.839	31.259		-19.710			0.00	<u> 6</u>	
č	L		_	3	_	6.801	30.358	_	<u>-18.485</u>	0.0	_	0.00	6	_
CE			B	7-	+	8,207	29,950	_	-18.071	10.0		0.00	<u> 16</u>	ı
N2			B	13	+	8,218	29.014	_	<u>-16.880</u>	0.0		0,00	16	
C			H	13	+	7.415	27.785	-	<u>-17.079</u>	0.00		0.00	7	_
ŏ	12		B	3	+	5.861	33.146	_	-21.017	0.00	_	0.00	16	4
N			_	_	+	6.609	34,098	_	20.790	0.00	_	0.00	8	4
CA	SE		B	13	+	5.209	33.042	7	22.170	0.00	_	0.00	17	4
CB			В	3		5.228	34.043	_	23.217	0.00		0.00	6	4
O	SE		В	3	_	4.676	33.493	_	24,533	0.00		0.00	16	4
C	SE		В	3	_	3.444 4.440	32,822		24.356	0.00		0.00	18	4
ŏ	SE	_	В	3	_	4.449	35,293	_	22.812	0.00		0.00	16	4
N	MI		В	3		4.735	36,385	7-	23.305	0.00	_	0.00	8	4
CA	MI		В	3		3.481 2.696	35.155	_	21.918	0.00	_	0.00	7	4
CB	MI		В		_		36.271	\mathbf{I}	21.421	0.00		0.00	6	4
C	MI	_	В	3	_	1.212	35.878	_	21.389	0.00	_	0.00	6	4
SD	ME		В	3		0.586	35,701		22,763	0.00	┰	0.00	6	4
CE	ME		В	3		0.997	34.844		22,727	0.00	_	0,00	1	4
C	ME		В	3	_	0.458	33.139	1-	22.612	0.00		.00	6	4
ŏ	ME	$\overline{}$	В			3.121	36.682		20.013	0.00		.00	6	4
N	TH		В	3		3.198	37.849		19.643	0.00		.00	8	4
CA				_	_	390	35.679	_	19.194	0.00	_	.00	7	4
	TH		В	3	_	3.621	35.830	7	17.764	0.00		.00	6	4
CB O	TH	_	B	3		.926	34.630	_	17.084	0.00	_	.00	6	4
C	TH	_	В	3	т-	.203	35.075		15.930	0.00	_	.00	8	Į.
	TH		B	3	7	.875	33.516		16.701	0.00		.00	6	1
<u>C</u>	TH		틙	3	7	.085	35.974	_	7.399	0.00	_	.00	6	Į
O N	TH		릤	3		.442	36.689		6.457	0.00	_	.00	8	Į
	CL.		뭐	3		.953	35.326	_	8.170	0.00		.00	7	1
CA	GT.	_	B	3	_	.392	35.351		7.903	0.00	_	.00	6	1
15	GL		B	3		.707	34.127		7.033	0.00	0	.00_	6	Į
lë-	GL	_	B	3		813	33.323		6.775	0.00	0	00	8	
N	HIS		B	3		945	33.973	-1	6.597	0.00	0	00	7	
CA	HIS		B	3		310	32.837		5.756	0.00	0.	00	6	
CB	HIS	Ш	В	3	u	0.700	32.331	-1	6.132	0.00	0.	00	6	

C HIS B 3 11,133 31,073 -15,448 0.00 0.00 6 N HIS B 3 10,483 30,190 -14,655 0.00 0.00 7 CE HIS B 3 12,246 30,601 -15,559 0.00 0.00 6 N HIS B 3 12,246 30,601 -15,559 0.00 0.00 6 N HIS B 3 12,337 32,538 -14,285 0.00 0.00 6 C HIS B 3 10,070 34,028 -13,825 0.00 0.00 6 C LEU B 3 6,730 32,778 -11,684 0.00 0.00 6 C LEU B 3 4,547 33,395 -1,311 0.00 0.00 6 C LEU B 3 10,095 31,466 -1,711 0.00					,		,			, ,
C	С	HIS	В	3	11.133	31.073	-15.448	0.00	0.00_	6
N HIS B 3 12.426 30.601 15.559 0.00 0.00 7 CE HIS B 3 12.544 29.486 14.868 0.00 0.00 6 C HIS B 3 12.543 33.231 14.285 0.00 0.00 7 C HIS B 3 10.970 34.028 13.825 0.00 0.00 6 O HIS B 3 10.070 34.028 13.825 0.00 0.00 6 O HIS B 3 10.070 34.028 13.825 0.00 0.00 6 C LEU B 3 8.370 25.596 13.518 0.00 0.00 7 CA LEU B 3 8.370 25.596 13.518 0.00 0.00 7 CA LEU B 3 8.370 25.596 13.518 0.00 0.00 6 C LEU B 3 5.544 33.425 12.363 0.00 0.00 6 C LEU B 3 5.544 33.425 12.363 0.00 0.00 6 C LEU B 3 5.591 34.563 13.303 0.00 0.00 6 C LEU B 3 5.901 34.563 13.303 0.00 0.00 6 C LEU B 3 10.995 31.456 11.711 0.00 0.00 6 C LEU B 3 10.995 31.456 11.711 0.00 0.00 6 C LEU B 3 12.016 31.486 10.071 0.00 0.00 6 C LEU B 3 12.016 31.480 10.971 0.00 0.00 6 C LEU B 3 13.004 32.076 11.132 0.00 0.00 6 C LEU B 3 13.004 32.076 11.132 0.00 0.00 6 C LEU B 3 10.87 29.528 10.053 0.00 0.00 6 C LEU B 3 13.851 33.194 10.425 0.00 0.00 6 C LEU B 3 19.877 28.748 10.547 0.00 0.00 6 C LEU B 3 15.851 33.194 10.425 0.00 0.00 6 C LEU B 3 15.851 33.194 10.425 0.00 0.00 6 C LEU B 3 15.851 33.194 10.425 0.00 0.00 6 C LEU B 3 15.851 33.194 10.425 0.00 0.00 6 C LEU B 3 15.851 33.194 10.425 0.00 0.00 6 C LEU B 3 15.851 33.194 10.547 0.00 0.00 6 C LEU B 3 15.855 27.997 7.105 0.00 0.00 6 C LEU B 3 15.615 31.314 1.814 0.00 0.00 0.00 6 C LEU B 3 10.287 29.528 10.053 0.00 0.00 6 C LEU B 3 15.615 31.341 1.816 0.00 0.00 6 C LEU B 3 15.615 31.341 1.816 0.00 0.00 6 C LEU B 3 10.387 29.528 10.053 0.00 0.00 6 C LEU B 3 10.877 28.748 10.547 0.00 0.00 6 C LEU B 3 10.877 28.748 10.0547 0.00 0.00 6 C LEU B 3 10.877 28.748 10.0547 0.00 0.00 6 C LEU B 3 10.877 28.748 10.0547 0.00 0.00 6 C LEU B 3 10.877 28.748 10.0547 0.00 0.00 6 C LEU B 3 10.877 28.748 10.0547 0.00 0.00 6 C LEU B 3 10.877 28.748 10.0547 0.00 0.00 6 C LEU B 3 10.877 28.748 10.0547 0.00 0.00 6 C LEU B 3 10.877 28.748 10.000 0.00 0.00 6 C LEU B 3 10.877 28.748 10.000 0.00 0.00 6 C LEU B 3 10.878 29.841 8.743 0.00 0.00 0.00 6 C LEU B 3 10.878 29.841 8.743 0.00 0.00 0.00 6 C LEU B 3 10.878 29.841 8.743 0.00 0.00 0.00 6 C LEU B 3		HIS	В	3		30.190	-14.655	0.00	0.00	6
CE HIS B 3 12.544 29.486 .14.868 0.00 0.00 6 N HIS B 3 11.380 29.212 .14.307 0.00 0.00 7 C HIS B 3 19.253 33.231 .14.285 0.00 0.00 8 N LEU B 3 8.370 32.596 .13.518 0.00 0.00 .6 C LEU B 3 8.370 32.596 .13.518 0.00 0.00 .6 C LEU B 3 6.730 32.778 .11.684 0.00 0.00 6 C LEU B 3 5.544 33.425 .12.363 0.00 0.00 6 C LEU B 3 5.544 33.425 .12.363 0.00 0.00 6 C LEU B 3 5.544 33.425 .12.363 0.00 0.00 6 C LEU B 3 5.591 34.563 .13.303 0.00 0.00 6 C LEU B 3 5.901 34.563 .13.303 0.00 0.00 6 C LEU B 3 3 8.711 31.869 .10.007 0.00 0.00 6 C LEU B 3 3 10.095 31.456 .11.711 0.00 0.00 6 C LEU B 3 11.003 30.600 .10.971 0.00 0.00 6 C LEU B 3 11.003 30.600 .10.971 0.00 0.00 6 C LEU B 3 13.04 32.076 .11.132 0.00 0.00 6 C LEU B 3 10.095 31.456 .11.711 0.00 0.00 6 C LEU B 3 10.295 31.456 .11.711 0.00 0.00 6 C LEU B 3 10.295 31.456 .11.711 0.00 0.00 6 C LEU B 3 10.295 31.456 .11.711 0.00 0.00 6 C LEU B 3 10.295 31.456 .11.712 0.00 0.00 6 C LEU B 3 10.295 31.456 .11.713 0.00 0.00 6 C LEU B 3 10.295 31.456 .10.227 0.00 0.00 6 C LEU B 3 10.095 31.456 .10.227 0.00 0.00 6 C LEU B 3 10.289 29.288 10.053 0.00 0.00 6 C LEU B 3 10.289 29.288 10.053 0.00 0.00 6 C LEU B 3 10.287 29.288 10.053 0.00 0.00 6 C LEU B 3 10.287 29.288 10.053 0.00 0.00 6 C LEU B 3 10.319 29.841 8.743 0.00 0.00 6 C GLY B 3 9.748 28.939 7.767 0.00 0.00 6 C GLY B 3 9.748 28.939 7.767 0.00 0.00 6 C GLY B 3 7.655 29.997 7.105 0.00 0.00 6 C ALA B 3 5.615 31.341 8.116 0.00 0.00 6 C ALA B 3 5.615 31.341 8.116 0.00 0.00 6 C ALA B 3 5.639 29.238 1.0670 0.00 0.00 6 C ALA B 3 5.639 29.238 1.0670 0.00 0.00 6 C ALA B 3 5.639 29.238 1.0670 0.00 0.00 6 C ALA B 3 5.639 29.238 1.1243 0.00 0.00 6 C ALA B 3 5.639 29.238 1.0670 0.00 0.00 6 C ALA B 3 5.639 29.238 1.1243 0.00 0.00 6 C ALA B 3 5.635 29.997 7.105 0.00 0.00 6 C ALA B 3 5.639 29.238 1.0600 0.00 0.00 6 C B ALA B 3 6.539 29.238 1.0600 0.00 0.00 6 C B ALA B 3 6.539 29.238 1.1243 0.00 0.00 0.00 6 C B ALA B 3 6.539 29.238 1.1243 0.00 0.00 0.00 6 C B ALA B 3 1.664 29.023 11.243 0.00 0.00 0.00 6 C ULU B 3 1.4854 31.299 1.0449 0.00 0.00 6 C ULU			_							
N HIS B 3 11.380 29.212 14.307 0.00 0.00 7 C HIS B 3 9.253 33.231 14.285 0.00 0.00 6 N LEU B 3 10.070 34.028 13.825 0.00 0.00 8 N LEU B 3 8.370 32.596 13.518 0.00 0.00 7 CA LEU B 3 8.370 32.596 13.518 0.00 0.00 6 CB LEU B 3 6.730 32.778 11.684 0.00 0.00 6 CC LEU B 3 4.547 33.915 11.311 0.00 0.00 6 C LEU B 3 5.544 33.425 12.363 0.00 0.00 6 C LEU B 3 5.901 34.563 13.303 0.00 0.00 6 C LEU B 3 3 9.026 32.033 11.187 0.00 0.00 6 C LEU B 3 3 10.095 31.456 11.711 0.00 0.00 6 C LEU B 3 3 10.095 31.456 11.711 0.00 0.00 6 C LEU B 3 3 12.016 31.486 10.077 0.00 0.00 6 C LEU B 3 12.016 31.486 10.077 0.00 0.00 6 C LEU B 3 12.016 31.486 10.077 0.00 0.00 6 C LEU B 3 12.016 31.486 10.077 0.00 0.00 6 C LEU B 3 13.004 32.076 11.132 0.00 0.00 6 C LEU B 3 13.004 32.076 11.132 0.00 0.00 6 C LEU B 3 10.287 29.628 10.053 0.00 0.00 6 C LEU B 3 13.004 32.076 11.132 0.00 0.00 6 C LEU B 3 10.287 29.628 10.053 0.00 0.00 6 C LEU B 3 10.287 29.628 10.053 0.00 0.00 6 C LEU B 3 10.287 29.828 10.053 0.00 0.00 6 C LEU B 3 10.287 29.828 10.053 0.00 0.00 6 C LEU B 3 13.314 40.245 0.00 0.00 6 C LEU B 3 15.717 28.748 10.547 0.00 0.00 6 C LEU B 3 15.717 28.748 10.547 0.00 0.00 6 C LEU B 3 3 13.314 10.319 29.841 8.743 0.00 0.00 6 C LEU B 3 1.606 31.319 29.841 8.743 0.00 0.00 7 CA GLY B 3 8.234 28.904 7.708 0.00 0.00 6 C GLY B 3 6.515 31.311 8.116 0.00 0.00 6 C ALA B 3 6.515 32.997 7.705 0.00 0.00 6 C B ALA B 3 6.515 32.997 7.705 0.00 0.00 6 C B ALA B 3 6.515 32.997 7.706 0.00 0.00 6 C B ALA B 3 6.515 32.934 1.940 0.00 0.00 6 C B ALA B 3 6.115 29.924 8.366 0.00 0.00 6 C ALA B 3 6.516 32.9288 2.305 0.00 0.00 6 C ALA B 3 6.516 32.9288 2.305 0.00 0.00 6 C ALA B 3 6.516 32.9288 3.000 0.00 0.00 6 C ALA B 3 6.516 32.9288 3.000 0.00 0.00 6 C B ALA B 3 6.516 32.9288 3.000 0.00 0.00 6 C B ALA B 3 6.516 32.9288 1.000 0.00 0.00 6 C B ALA B 3 6.516 32.9288 1.000 0.00 0.00 6 C ALA B 3 6.539 22.381 1.000 0.00 0.00 6 C ALA B 3 6.539 22.381 1.000 0.00 0.00 6 C B ALA B 3 6.526 2.521 10.000 0.00 0.00 6 C B ALA B 3 6.526 2.521 10.000 0.00 0.00 6 C B ALA B 3 1.464 31.293 1	_		_	_						
C HIS B 3 9,253 33,231 -14,255 0.00 0.00 6 O HIS B 3 10.070 34,028 -13,825 0.00 0.00 8 N LEU B 3 8,370 32,596 -13,518 0.00 0.00 7 CA LEU B 3 8,182 32,913 -12,110 0.00 0.00 6 C LEU B 3 6,730 32,778 -11,684 0.00 0.00 6 C LEU B 3 5,544 33,425 -12,363 0.00 0.00 6 C LEU B 3 5,544 33,425 -11,684 0.00 0.00 6 C LEU B 3 5,544 33,425 -11,684 0.00 0.00 6 C LEU B 3 5,544 33,915 -11,131 0.00 0.00 6 C LEU B 3 7,590 34,563 -13,303 0.00 0.00 6 C LEU B 3 7,11 31,699 -10,007 0.00 0.00 6 C LEU B 3 10,095 31,456 -11,711 0.00 0.00 6 C LEU B 3 11,003 30,600 -10,971 0.00 0.00 6 C LEU B 3 11,003 30,600 -10,971 0.00 0.00 6 C LEU B 3 13,104 32,076 -11,132 0.00 0.00 6 C LEU B 3 13,351 33,194 -10,425 0.00 0.00 6 C LEU B 3 10,287 29,628 -10,053 0.00 0.00 6 C LEU B 3 10,287 29,628 -10,053 0.00 0.00 6 C LEU B 3 10,319 29,841 8,743 0.00 0.00 6 C LEU B 3 10,319 29,841 8,743 0.00 0.00 6 C LEU B 3 7,565 27,997 7,105 0.00 0.00 6 C LEU B 3 7,565 27,997 7,105 0.00 0.00 6 C LEU B 3 3 7,565 27,997 7,105 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,615 31,341 8,116 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 5,619 29,461 9,734 0.00 0.00 6 C ALA B 3 6,176 28,868 1,2032 0.00 0.00 6 C ALA B 3 6,176 28,868 1,2032 0.00 0.00 6 C ALA B 3 6,176 28,868 1,2032 0.00 0.00 6 C ALA B 3 6,176 28,868 1,2032 0.00 0.00 0.00 6 C B ALA B 3 6,160 29,23 1,1243 0.00 0.00 6 C B ALA B 3 6,160 29,23 1,1243 0.00 0.00 6 C B ALA B 3 1,464 30,22 1,144 3,000 0.00 6 C B ALA B 3 1,4	CE								_	
O HIS B 3 10.070 34.028 -13.825 0.00 0.00 B N LEU B 3 8.370 32.596 -13.518 0.00 0.00 0.00 6 CA LEU B 3 8.182 32.913 -12.10 0.00 0.00 6 C LEU B 3 6.730 32.778 -11.684 0.00 0.00 6 C LEU B 3 4.547 33.915 -12.363 0.00 0.00 6 C LEU B 3 5.901 34.563 -13.303 0.00 0.00 6 C LEU B 3 10.095 31456 -11.711 0.00 0.00 6 C LEU B 3 12.016 31.480 -10.277 0.00 0.00 6 C LEU B 3 13.024 32.076 -11.132	N	HIS	В	3	11.380	29.212	-14.307	0.00	0.00	7
O HIS B 3 10,070 34,028 13,825 0.00 0.00 8 N LEU B 3 8,370 32,595 -13,518 0.00 0.00 6 CB LEU B 3 6,730 32,778 -11,684 0.00 0.00 6 C LEU B 3 5,544 33,425 -12,363 0.00 0.00 6 C LEU B 3 5,901 34,563 -13,333 0.00 0.00 6 C LEU B 3 9,026 32,033 11,117 0.00 0.00 6 C LEU B 3 11,003 30,600 10,971 0.00 0.00 6 C LEU B 3 12,016 31,486 -11,132 0.00 0.00 6 C LEU B 3 12,016 31,448 -10,227 0.00	С	HIS	В	3	9.253	33.231	-14,285	0.00	0.00_	6
N			R	3	10.070	34 028	.13 825	0.00	0.00	8
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C LEU B 3 5.901 34.563 -13.303 0.00 0.00 6 C LEU B 3 9.026 32.033 -11.117 0.00 0.00 6 N LEU B 3 10.095 31.456 -11.711 0.00 0.00 6 CA LEU B 3 11.003 30.600 -10.971 0.00 0.00 6 CB LEU B 3 12.016 31.480 -10.227 0.00 0.00 6 C LEU B 3 13.04 32.076 -11.132 0.00 0.00 6 C LEU B 3 14.062 30.986 -11.588 0.00 0.00 6 C LEU B 3 14.062 30.986 -11.588 0.00 0.00 6 C LEU B 3 15.777 28.748 10.537 0.00						_		0.00	0.00	6
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N	C	LEU	В	3_	9,026	32,033	·11.187	0.00		_
N	0	LEU	В	3	8.711	31.869	-10.007	0.00	0.00	8
CA LEU B 3 11.003 30.600 .10.971 0.00 0.00 6 CB LEU B 3 12.016 31.480 .10.227 0.00 0.00 6 C LEU B 3 13.104 32.076 .11.132 0.00 0.00 6 C LEU B 3 13.851 33.194 10.425 0.00 0.00 6 C LEU B 3 14.062 30.986 .11.588 0.00 0.00 6 C LEU B 3 10.287 29.628 .10.053 0.00 0.00 6 C LEU B 3 3 10.287 29.628 .10.053 0.00 0.00 6 C LEU B 3 3 10.319 29.841 8.743 0.00 0.00 7 CA GLY B 3 9.577 28.748 .10.547 0.00 0.00 8 C GLY B 3 9.578 28.939 .7.767 0.00 0.00 6 C GLY B 3 7.655 27.997 .7.105 0.00 0.00 6 C GLY B 3 7.655 27.997 .7.105 0.00 0.00 6 C GLY B 3 6.115 29.924 8.366 0.00 0.00 6 C ALA B 3 6.115 29.924 8.366 0.00 0.00 6 C ALA B 3 5.615 31.341 8.116 0.00 0.00 6 C ALA B 3 6.539 29.238 10.670 0.00 0.00 6 C ALA B 3 6.539 29.238 10.670 0.00 0.00 6 C ALA B 3 6.176 28.868 12.032 0.00 0.00 7 CA ALA B 3 5.615 21.341 9.940 0.00 0.00 6 C ALA B 3 5.373 27.580 12.997 0.00 0.00 8 N ALA B 3 5.373 27.580 12.997 0.00 0.00 8 N ALA B 3 5.373 27.580 12.997 0.00 0.00 6 C ALA B 3 5.373 27.580 12.997 0.00 0.00 6 C ALA B 3 5.385 29.238 10.670 0.00 0.00 6 C ALA B 3 5.385 29.238 10.670 0.00 0.00 6 C ALA B 3 5.373 27.580 12.997 0.00 0.00 6 C ALA B 3 5.385 27.580 12.097 0.00 0.00 6 C ALA B 3 5.385 27.580 12.097 0.00 0.00 6 C ALA B 3 5.086 28.542 11.392 0.00 0.00 6 C ALA B 3 5.086 28.542 11.392 0.00 0.00 6 C ALA B 3 5.088 25.275 11.340 0.00 0.00 6 C ALA B 3 1.254 27.561 12.734 0.00 0.00 6 C ALA B 3 2.965 24.521 10.998 0.00 0.00 6 C ALA B 3 3.730 28.881 10.641 0.00 0.00 6 C ALA B 3 1.254 27.141 9.815 0.00 0.00 6 C ALA B 3 1.254 27.141 9.815 0.00 0.00 6 C ALA B 3 1.254 27.141 9.815 0.00 0.00 6 C ALA B 3 1.254 27.141 9.815 0.00 0.00 6 C ALA B 3 1.254 27.141 9.815 0.00 0.00 6 C ALA B 3 1.254 27.141 9.815 0.00 0.00 6 C ALA B 3 1.254 27.141 9.815 0.00 0.00 6 C ALA B 3 1.254 27.141 9.815 0.00 0.00 6 C WAL B 3 0.664 29.023 11.243 0.00 0.00 6 C WAL B 3 0.664 29.023 11.243 0.00 0.00 6 C WAL B 3 1.918 30.939 11.691 0.00 0.00 6 C GLU B 3 1.986 28.267 12.482 0.00 0.00 6 C GLU B 3 1.986 28.267 12.482 0.00 0.00 0.00 6 C GLU B 3 1.986 28.27 12.482 0.00 0.00 0.00 6 C GLU B 3 1	N					31 456	-11.711	0.00	0.00	7
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N		ALA	В	3	4.322	27.561	-12.734	0.00	0.00	8
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O VAL B 3 -0.892 28.233 -12.896 0.00 0.00 8 N GLU B 3 1.220 27.512 -13.064 0.00 0.00 7 CA GLU B 3 1.018 26.706 -14.251 0.00 0.00 6 CB GLU B 3 3.037 27.611 -15.485 0.00 0.00 6 C GLU B 3 4.467 27.395 -15.920 0.00 0.00 6 O GLU B 3 4.888 26.244 -16.143 0.00 0.00 8 O GLU B 3 0.241 25.422 14.010 0.00 0.00 8 C GLU B 3 0.241 25.422 14.010 0.00 0.00 8 O GLU B 3 0.316 24.863 14.960 0.00	C_	VAL	В	3	2.445	30.282	-12.543	0.00		
N GLU B 3 1.220 27.512 -13.064 0.00 0.00 7 CA GLU B 3 1.018 26.706 -14.251 0.00 0.00 6 CB GLU B 3 2.384 26.381 -14.879 0.00 0.00 6 C GLU B 3 3.037 27.611 15.485 0.00 0.00 6 C GLU B 3 4.467 27.395 -15.920 0.00 0.00 6 C GLU B 3 4.888 26.244 -16.143 0.00 0.00 8 O GLU B 3 5.187 28.405 -16.057 0.00 0.00 8 C GLU B 3 0.241 25.422 14.010 0.00 0.00 8 C GLU B 3 0.241 25.422 14.010 0.00 0.00 8 N SER B 3 0.190 24.947 -12.770 0.00 0.00 7	C	VAL	В	3	0.266	28.227	-12.482	0,00	0.00	6
N GLU B 3 1.220 27.512 -13.064 0.00 0.00 7 CA GLU B 3 1.018 26.706 -14.251 0.00 0.00 6 CB GLU B 3 2.384 26.381 -14.879 0.00 0.00 6 C GLU B 3 3.037 27.611 -15.485 0.00 0.00 6 C GLU B 3 4.467 27.395 -15.920 0.00 0.00 6 O GLU B 3 4.888 26.244 -16.143 0.00 0.00 8 O GLU B 3 5.187 28.405 -16.057 0.00 0.00 8 C GLU B 3 0.241 25.422 14.010 0.00 0.00 8 O GLU B 3 -0.316 24.863 14.960 0.00 0.00 8 N SER B 3 0.190 24.947 -12.770 0.00 0.00 7	0	VAL	В	3	-0.892	28.233	-12.896	0.00	0.00	8
CA GLU B 3 1.018 26.706 .14.251 0.00 0.00 6 CB GLU B 3 2.384 26.381 .14.879 0.00 0.00 6 C GLU B 3 3.037 27.611 .15.485 0.00 0.00 6 C GLU B 3 4.467 27.395 .15.920 0.00 0.00 6 O GLU B 3 5.187 28.405 .16.057 0.00 0.00 8 O GLU B 3 0.241 25.422 .14.010 0.00 0.00 6 O GLU B 3 -0.316 24.863 .14.960 0.00 0.00 8 N SER B 3 0.190 24.947 .12.770 0.00 0.00 7										
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C GLU B 3 3.037 27.611 .15.485 0.00 0.00 6 C GLU B 3 4.467 27.395 .15.920 0.00 0.00 6 O GLU B 3 4.888 26.244 .16.143 0.00 0.00 8 O GLU B 3 5.187 28.405 .16.957 0.00 0.00 8 C GLU B 3 0.241 25.422 .14.010 0.00 0.00 6 O GLU B 3 -0.316 24.863 .14.960 0.00 0.00 8 N SER B 3 0.190 24.947 .12.770 0.00 0.00 7			I							
C GLU B 3 4.467 27.395 -15.920 0.00 0.00 6 O GLU B 3 4.888 26.244 -16.143 0.00 0.00 8 O GLU B 3 5.187 28.405 -16.957 0.00 0.00 8 C GLU B 3 0.241 25.422 14.910 0.00 0.00 6 O GLU B 3 -0.316 24.863 14.960 0.00 0.00 8 N SER B 3 0.190 24.947 -12.770 0.00 0.00 7										
C GLU B 3 4.467 27.395 -15.920 0.00 0.00 6 O GLU B 3 4.888 26.244 -16.143 0.00 0.00 8 O GLU B 3 5.187 28.405 -16.057 0.00 0.00 8 C GLU B 3 0.241 25.422 14.010 0.00 0.00 6 O GLU B 3 -0.316 24.863 14.960 0.00 0.00 8 N SER B 3 0.190 24.947 -12.770 0.00 0.00 7	l C	GLU	В	3	3.037	27.611		0.00	0,00	6
O GLU B 3 4.888 26.244 16.143 0.00 0.00 8 O GLU B 3 5.187 28.405 -16.057 0.00 0.00 8 C GLU B 3 0.241 25.422 14.010 0.00 0.00 0.00 6 O GLU B 3 0.316 24.863 14.960 0.00 0.00 0.0 8 N SER B 3 0.190 24.947 -12.770 0.00 0.00 7								0.00	0.00	6
O GLU B 3 5.187 28.405 -16.057 0.00 0.00 8 C GLU B 3 0.241 25.422 -14.010 0.00 0.00 6 O GLU B 3 -0.316 24.863 -14.960 0.00 0.00 8 N SER B 3 0.190 24.947 12.770 0.00 0.00 7										
C GLU B 3 0.241 25.422 -14.010 0.00 0.00 6 O GLU B 3 -0.316 24.863 -14.960 0.00 0.00 8 N SER B 3 0.190 24.947 -12.770 0.00 0.00 7										
O GLU B 3 -0.316 24.863 -14.960 0.00 0.00 8 N SER B 3 0.190 24.947 -12.770 0.00 0.00 7	_									
O GLU B 3 -0.316 24.863 -14.960 0.00 0.00 8 N SER B 3 0.190 24.947 -12.770 0.00 0.00 7	С	GLU	B	3	0.241	25,422				
N SER B 3 0.190 24.947 -12.770 0.00 0.00 7			В	3	-0.316	24.863	-14.960	0.00	0.00	8
	N	SER	В	3	0.190	24,947	-12,770	0.00	0.00	<u> 7</u>
[On Other D O 1-0.000 20.020 -12.400 0.00 0.00 10			_							
	<u> </u>	01216			0.200					

СВ	SER	В	3	-0.321	23.253	-11.037	0.00	0.00	6
0	SER	В	3	0.888	22.520	-11.055	0.00	0.00	8
C	SER	В	3	-2.121	24.295	-12.417	0.00	0.00	6
ō	SER	В	3	-3.015	23.566	-12.834	0.00	0.00	8
N	ILE	В	3	-2.337	25.530	-11.973	0.00	0.00	7
CA		В	3	-3.667	26.133	-11.972	0.00	0.00	6
	ILE		3			-11.223	0.00	0.00	6
CB	ILE	В		-3.676	27.477				_
C	ILE	<u>B</u>	3	-5.031	28.162	-11.315	0.00	0.00	6
C_	ILE	В	3	-3.292	27.240	-9.761	0.00	0.00	6
Ç	ILE_	В	3	-2.987	28.470	-8.942	0.00	0.00	6
C	ILE	В	3	-4.157	26.301	-13.407	0.00	0.00	6
0	ILE	В	3	-5.243	25,828	-13.750	0.00	0.00	8
N	TYR	В	3	-3.309	26.824	-14.288	0.00	0.00_	7
CA	TYR	В	3	-3.633	26.947	-15.705	0.00	0.00	6
CB	TYR	В	3	-2,493	27.567	-16.505	0.00	0.00	6
C	TYR	В	3	-1.896	28.842	-15.961	0.00	0.00	6
č	TYR	В	3	-0.581	29,179	-16.265	0.00	0.00	6
_	-		3		30.344	-15.788	0.00	0.00	6
CE	TYR	В		-0.012					-
<u> </u>	TYR	В	3	-2,619	29.718	-15.162	0.00	0.00	6
CE	TYR	В	3	-2.057	30.876	-14.670	0.00	0.00	_
CZ	TYR	В	3	-0.752	31.186	-14,990	0.00	0.00	6
0	TYR	В	3	-0.193	32.345	-14.503	0.00	0.00	8
C_	TYR	В	3	-4.001	25.590	-16.298	0,00	0.00	6
0	TYR	В	3	-5.007	25.469	-16.999	0.00	0.00	8
Z	SER	В	3	-3,235	24.554	-15.971	0.00	0.00	7
CA	SER	В	3	-3.522	23.199	-16.415	0.00	0.00	6
CB	SER	В	3	-2.377	22.264	-16.017	0.00	0.00	6
0	SER	В	3	-1.155	22.702	-16.586	0.00	0.00	8
č	SER	В	3	-4.842	22.675	-15,858	0.00	0.00	6
o_	SER	В	3	-5.520	21.887	-16.523	0.00	0.00	8
N	ILE	В	3	-5.206	23.068	-14.644	0.00	0,00	7
CA	ILE	В	3		22.671	-14.041	0.00	0.00	6
				-6.472			0.00	0.00	6
CB	ILE	B	3	-6.451	22.881	-12.518			
Ç_	ILE	В	3	-7.836	22.836	-11.898	0.00	0.00	6
Č	ILE	B	3	-5.553	21.817	-11.866	0.00	0.00	6
С	ILE	В	3	-5.056	22.190	-10.487	0.00	0.00	6
С	ILE	В	3	-7.624	23.422	-14.695	0.00	0.00	6
0	ILE	В	3_	-8.562	22.804	-15.209	0.00	0.00	8
N_	LEU	В	3	-7.520	24,744	-14,785	0.00	0.00	7
CA	LEU	В	3	-8.545	25.579	-15.399	0.00	0.00	6
CB	LEU	В	3	-8.181	27.065	-15.295	0.00	0.00	6
С	LEU	В	3	-8.129	27.631	-13.872	0.00	0.00	6
С	LEU	В	3	-7.627	29.068	-13.881	0.00	0.00	6
C	LEU	В	3	-9.487	27.535	-13.191	0.00	0.00	6
Ö	LEU	В	3	-8,826	25,191	-16.840	0.00	0.00	6
Ö.	LEU	В	3	-9.981	25.181	-17.275	0.00	0.00	8
N	ALA	В	3	-7.799	24.803	-17.590	0.00	0.00	7
		В	3	-7.937	24.338	-18.959	0.00	0.00	6
CA	ALA	В	3	-6.579	23.931	-19.512	0.00	0.00	6
CB	ALA	_							6
<u>c</u>	ALA	В	3	-8.911	23.164	-19.051	0.00	0.00	_
<u> </u>	ALA_	В	3_	-9.697	23.069	-19,996	0.00	0.00	8
N	LEU	В	3	-8.876	22.262	-18.076	0.00	0.00	7
CA	LEU	В	3_	-9.799	21.147	-17.983	0.00	0.00	6
CB	LEU	В	3	-9.334	20.159	-16.905	0.00	0.00	6
С	LEU	В	3	-8.035	19.398	-17.188	0.00	0.00	6
C	LEU	В	3	-7.659	18,528	-15.997	0.00	0.00	6
С	LEU	В	3	-8.154	18.559	-18.451	0.00	0.00	6
Č	LEU	В	3	-11.227	21.586	-17.680	0.00	0.00	6
ŏ	LEU	В	3	-12.181	20.984	-18.179	0.00	0.00	8
		В	3	-11.392	22.617	-16.859	0.00	0.00	7
Ň	ARG							0.00	6
CA	ARG	В	3	-12.706	23.117	-16.489	0.00		_
CB	ARG	В	3	-12.583	24.079	-15.299	0.00	0.00	6
	ARG	В	3	-13.874	24.777	-14.912	0.00	0.00	6
c c	ARG	B	3	-13,648	25.875	-13.887	0.00	0.00	6

N																		
	ARG	В	3	-13.165	27.108	-14.494	0.00 0.00	T 7	N	ASN	В	3	3.542	35.474	-29.338	0.00	0.00	7
								6	CA	ASN	В	3	4.787	35.875	-29.954	0.00	0.00	6
CZ	ARG	В	3	-13.051	28.275	-13.874	0.00 0.00	_				_				_		—
N_	ARG	В	3	-13.379	28.396	-12.595	0.00 0.00		CB	ASN		3	5.803	36.330	-28.895	0.00	0.00	6
N_	ARG	B	3_	-12.597	29.330	-14.537	0.00 0.00	17	C	ASN		3	5.406	37.590	-28.157	0.00	0.00	6
C	ARG	В	3	-13.421	23.828	-17,632	0.00 0.00	6	0	ASN	B	3	4.824	38.511	-28.729	0.00	0.00	8
0	ARG	В	3	-14.633	23.698	-17.798	0.00 0.00	8	N	ASN	В⊥	3	5.713	37.619	-26.865	0.00	0.00	7
N	ASP	В	3	-12.690	24.638	-18.381	0.00 0.00	7	С	ASN	В	3	5.455	34.830	-30.834	0.00	0.00	6
			3	-13.225	25.469	-19.440	0.00 0.00	6	ŏ	ASN		3	6.597	35.051	-31.267	0.00	0.00	8
CA	ASP	В	_		_			$\overline{}$			_	3		33.721	-31,152	0,00	0.00	7
CB	ASP	В	3	-12.537	26.846	-19.359	0.00 0.00	16	N	LEU			4,802					6
LC_	ASP	B	3	-12.948	27.685	-18.176	0.00 0.00	6	CA.	LEU		3	5.422	32.668	-31.951	0.00	0.00	
Q	ASP	В	3	-13.535	27.157	-17.211	0.00 0.00	8	CB	LEU		3	4.857	31.306	-31.559	0.00	0.00	6
0	ASP	В	3	-12.682	28.908	-18.203	0.00 L0.00	8	C	LEU	B	3	5.462	30.051	-32,183	0.00	0.00	6
C	ASP	В	3	-12.979	24.945	-20.843	0.00 0.00	6	C_	LEU_	BL	3	6.981	30.095	-32.216	0.00	0.00	6
0	ASP	В	3	-13.300	25.620	-21.827	0.00 0.00	8	C	LEU	В	3	4.989	28.809	-31.438	0,00	0.00	6
N	GLN	В	3	-12.296	23.817	-20.977	0.00 0.00	7	C	LEU	в	3	5.272	32.938	-33.443	0.00	0.00	6
		_	_			-22.279	0.00 0.00	6	Ö	LEU		3	4.492	32.311	-34.153	0.00	0.00	8
CA	GLN	В	3	-11.944	23,263					ASP		3	_	33.859	-33.940	0.00	0.00	7
CB	GLN	В	3	-13.126	22.512	-22.889	0.00 0.00	6	N			-	6.089					6
C	GLN	B	3	-13.723	21.453	-21,980	0.00 0.00	6	CA	ASP	_	3	6.054	34.323	-35.311	0.00	0.00	
C	GLN	В	3	-12,920	20.174	-21.920	0.00 0.00	6	СВ	ASP		3	6.691	35,718	-35.391	0.00	0.00	6
10	GLN	В	3	-12.423	19.677	-22,930	0.00 0.00	8	C	ASP		3	5,944	36.763	-34.591	0.00	0,00	6
N	GLN	В	3	-12.779	19.616	-20,720	0.00 0.00	7	0	ASP	В	3	6.598	37.704	-34.092	0,00	0.00	8
C	GLN	В	3	-11.408	24.327	-23.235	0.00 0.00	6	0	ASP_	В	3	4.707_	36.655	-34,463	0.00	0.00	8
O_	GLN	В	3	-11.691	24.310	-24.433	0.00 0.00	8	C	ASP		3	6.790	33.400	-36.271	0.00	0.00	6
N	ALA	В	3	-10.452	25.120	-22.772	0.00 0.00	7	0	ASP	В	3	6.462	33.348	-37.457	0.00	0.00	8
CA	ALA	В	3	-9.774	26.140	-23.550	0.00 0.00	6	N	ASN		3	7.794	32.689	-35.773	0.00	0.00	7
	ALA	В	3	-10.335	27.521	-23.267	0.00 0.00	6	CA	ASN		3	8.586	31.789	-36.597	0.00	0.00	6
CB			-				0.00 0.00	6	CB	ASN		3	9,729	32.580	-37.246	0.00	0.00	6
Ç_	ALA	B	3	-8.284	26,084	-23.207				ASN		3	9.497	32.981	-38,683	0.00	0.00	6
0	ALA	B	3	-7.931	25,901	-22.041	0.00 0.00	8	ļ <u>c</u>								0.00	
N	VAL	B	3	-7.437	26.189	-24,220	0.00 0.00	17	0	ASN		3	9.025	32.186	-39.498	0.00		8
CA	VAL.	B	3	-5.993	26.123	-24.018	0.00 0.00	6	N	ASN	_	3	9.828	34.229	-39.001	0.00	0.00	7
CB	VAL	В	3	-5.366	24.989	-24.847	0.00 0.00	16	C	ASN		3	9.189	30.642	-35.796	0.00	0.00	6
C	VAL	В	3	-3.855	25,131	-24.973	0.00 0.00	6	0	ASN	_	3	10.253	30.781	-35.192	0.00	0.00	8
C	VAL	В	3	-5.695	23,633	-24.230	0.00 0.00	6	N	PRO		3	8.538	29.485	-35,827	0.00	0.00	7
C	VAL	В	3	-5.351	27.463	-24.356	0.00 0.00	6	C	PRO	В	<u>3. l</u>	7.263	29.247	-36.544	0,00	0.00	6
0	VAL	В	3	-5.482	27.957	-25.472	0.00 0.00	8	CA	PRO	В	3	9.018	28,297	-35.149	0.00	0.00	6
N	PRO	В	3	4.633	28.030	-23.392	0.00 0.00	7	СВ	PRO	В	3	8,089	27.190	-35.633	0.00	0.00	6
			·					6	C	PRO		3	6.862	27.865	-36.120	0.00	0.00	6
1 C	PRO	_	13	4 407	27 455	1 -22 044 1			C		В	3					0.00	
CA	PRO	В	3	-4,407	27.455	-22.044	0.00 0.00	6		PRO			10.462	27.972	-35.491		0.00	16
CA	PRO	B B	3	-3.944	29,292	-23.561	0.00 0.00	6		PRO	1 R 1	_	10.462	27.972	-35.491 -36.597	0.00		8
CA CB	PRO PRO	B B	3	-3.944 -3.399	29.292 29.643	-23.561 -22.188	0.00 0.00 0.00 0.00	6	0	PRO	_	3	10.926	28.255	-36.597	0.00	0.00	8
CA CB C	PRO PRO PRO	B B B	3 3	-3.944 -3.399 -3.859	29.292 29.643 28.600	-23.561 -22.188 -21.245	0.00 0.00 0.00 0.00 0.00 0.00	6	0 N	PRO ASP	В	3 3	10.926 11.178	28.255 27.374	-36.597 -34.544	0.00 0.00 0.00	0.00	8
CA CB C	PRO PRO PRO	B B B B	3 3 3	-3.944 -3.399 -3.859 -2.822	29.292 29.643 28.600 29.183	-23.561 -22.188 -21.245 -24.582	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6 6	O N CA	PRO ASP ASP	B B	3 3 3	10.926 11.178 12.575	28.255 27.374 26.992	-36.597 -34.544 -34.766	0.00 0.00 0.00 0.00	0,00 0,00 0,00	8 7 6
CA CB C C	PRO PRO PRO PRO	B B B B	3 3 3 3	-3.944 -3.399 -3.859 -2.822 -2.171	29.292 29.643 28.600 29.183 28.147	-23.561 -22.188 -21.245 -24.582 -24.703	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6 6 6	O N CA CB	PRO ASP ASP ASP	B B B	3 3 3	10.926 11.178 12.575 13.194	28.255 27.374 26.992 26.503	-36.597 -34.544 -34.766 -33.461	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	8 7 6 6
CA CB C C	PRO PRO PRO PRO PRO	B B B B B	3 3 3 3 3	-3.944 -3.399 -3.859 -2.822 -2.171 -2.582	29.292 29.643 28.600 29.183 28.147 30.264	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314	0,00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6 6 8 7	O N CA CB C	PRO ASP ASP ASP	B B B	3 3 3 3	10.926 11.178 12.575 13.194 14.659	28.255 27.374 26.992 26.503 26.855	-36.597 -34.544 -34.766 -33.461 -33.310	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	8 7 6 6
CA CB C C	PRO PRO PRO PRO PRO PRO PRO	B B B B B	3 3 3 3	-3.944 -3.399 -3.859 -2.822 -2.171	29.292 29.643 28.600 29.183 28.147	-23.561 -22.188 -21.245 -24.582 -24.703	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6 6 8 7 6	O N CA CB C	PRO ASP ASP ASP ASP	B B B B	3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042	28.255 27.374 26.992 26.503 26.855 27.993	-36.597 -34.544 -34.766 -33.461 -33.310 -33.650	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	8 7 6 6 6 8
CA CB C C	PRO PRO PRO PRO PRO	B B B B B	3 3 3 3 3	-3.944 -3.399 -3.859 -2.822 -2.171 -2.582	29.292 29.643 28.600 29.183 28.147 30.264	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314	0,00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6 6 8 7	O N CA CB C	PRO ASP ASP ASP	B B B B B	3 3 3 3 3	10.926 11.178 12.575 13.194 14.659	28.255 27.374 26.992 26.503 26.855 27.993 25.985	-36.597 -34.544 -34.766 -33.461 -33.310 -33.650 -32.850	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	8 7 6 6 8 8
CA CB C C O N C	PRO PRO PRO PRO PRO PRO PRO	B B B B B	3 3 3 3 3	-3.944 -3.399 -3.859 -2.822 -2.171 -2.582 -3.344	29.292 29.643 28.600 29.183 28.147 30.264 31.536	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6 6 8 7 6	O N CA CB C	PRO ASP ASP ASP ASP ASP ASP	B B B B B	3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619	28,255 27,374 26,992 26,503 26,855 27,993 25,985 25,926	-36.597 -34.544 -34.766 -33.461 -33.310 -33.650 -32.850 -35.856	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 7 6 6 8 8
CA CB C C O N C CA CB	PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B	3 3 3 3 3 3	-3.944 -3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056	29.292 29.643 28.600 29.183 28.147 30.264 31.536 30.294 31.453	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6 6 8 7 6 6	O N CA CB C	PRO ASP ASP ASP ASP ASP	B B B B B	3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430	28.255 27.374 26.992 26.503 26.855 27.993 25.985	-36.597 -34.544 -34.766 -33.461 -33.310 -33.650 -32.850	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	8 7 6 6 8 8 8
CA CB C O N C CA CB	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3	-3.944 -3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735	29.292 29.643 28.600 29.183 28.147 30.264 31.536 30.294 31.453 32,389	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6 6 8 7 6 6 6	ON CA CB CCOOC	PRO ASP ASP ASP ASP ASP ASP	B B B B B B B B B B B	3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619	28,255 27,374 26,992 26,503 26,855 27,993 25,985 25,926	-36.597 -34.544 -34.766 -33.461 -33.310 -33.650 -32.850 -35.856	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 7 6 6 8 8
CA CB C C O N C CA CB C	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B	3 3 3 3 3 3 3 3 3	3.944 -3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154	29.292 29.643 28.600 29.183 28.147 30.264 31.536 30.294 31.453 32.389 30.580	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -26.945	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6 6 8 7 6 6 6 6	ON CACBCOCON	ASP ASP ASP ASP ASP ASP ASP ASP GLU	B B B B B B B B B B	3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746	28.255 27.374 26.992 26.503 26.855 27.993 25.985 25.926 25.248 25.756	-36.597 -34.544 -34.766 -33.461 -33.310 -33.650 -32.850 -35.856 -36.086 -36.534	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 7 6 6 8 8 8
CA CB C C O N CA CB C	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3	3.944 -3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162	29.292 29.643 28.600 29.183 28.147 30.264 31.536 30.294 31.453 32.389 30.580 31.064	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -25.945 -24.864	0.00 0.00	6 6 8 7 6 6 6 6 8	0 2 6 6 0 0 0 0 0 0 0 0 0 0	ASP ASP ASP ASP ASP ASP ASP GLU GLU	B B B B B B B B B B B	3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746 13.865	28.255 27.374 26.992 26.503 26.855 27.993 25.985 25.926 25.248 25.756 24.830	-36.597 -34.544 -34.766 -33.461 -33.310 -33.650 -32.850 -35.856 -36.086 -36.534 -37.650	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 7 6 6 8 8 8 7 6
CA CB C C O N CA CB C	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3	3.944 -3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162 0.738	29.292 29.643 28.600 29.183 28.147 30.264 31.536 30.294 31.453 32.389 30.580 31.064 30.299	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -26.945 -24.864 -26.892	0.00 0.00	6 6 8 7 6 6 6 6 8 7	이 보 CA CB CO O CO 보조 CB	ASP ASP ASP ASP ASP ASP ASP GLU GLU GLU	B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746 13.865 15.284	28.255 27.374 26.992 26.503 26.855 27.993 25.985 25.926 25.248 25.756 24.830 24.861	-36.597 -34.544 -34.766 -33.461 -33.310 -33.650 -32.850 -35.856 -36.086 -36.534 -37.650 -38.236	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 6 6 8 8 8 7 6
CA CB C C O N C CA CB C	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 -3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162 0.738 2.137	29.292 29.643 28.600 29.183 28.147 30.264 31.536 30.294 31.453 32.389 30.580 31.064 30.299 30.682	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -26.945 -24.864 -26.892 -26.785	0.00 0.00	6 6 8 7 6 6 6 6 6 8 7	이 지	ASP ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746 13.865 15.284 16.342	28.255 27.374 26,992 26.503 26.855 27.993 25.985 25.926 25.248 25.756 24.830 24.861 24.299	-36.597 -34.544 -34.766 -33.461 -33.650 -32.850 -35.856 -36.534 -37.650 -38.236 -37.311	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 7 6 6 8 8 8 6 8 7 6 6
CA CB C C O N C CA CB C O N CA CB CA CB	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162 0.738 2.137 3.114	29.292 29.643 28.600 29.183 28.147 30.264 31.536 30.294 31.453 32.389 30.580 31.064 30.299 30.682 29.653	-23.561 -22.188 -21.245 -24.582 -24.703 -25.219 -26.355 -27.243 -26.307 -26.945 -24.864 -26.892 -26.785 -27.365	0.00 0.00	6 6 8 7 6 6 6 6 8 7 6	이 지 중요 요	ASP ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.619 13.746 13.865 15.284 16.342 17.548	28,255 27,374 26,992 26,503 26,855 27,993 25,985 25,926 25,248 25,756 24,830 24,861 24,299 23,718	-36.597 -34.544 -34.766 -33.461 -33.310 -33.650 -32.850 -35.856 -36.086 -36.534 -37.650 -38.236 -37.311 -38.015	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 7 6 6 8 8 8 6 8 7 6 6 6
CA CB C CO N CA CB C CO N CA CB	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162 0.738 2.137 3.114 2.891	29.292 29.643 28.600 29.183 28.147 30.264 31.536 30.294 31.453 32.389 30.580 31.064 30.299 30.682 29.653 28.369	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -26.945 -24.864 -26.892 -27.365 -27.365 -27.365 -27.365	0.00 0.00	6 6 8 7 6 6 6 6 8 7 6	이 지 경 B 다 이 이 이 지 조 로 B 이 다 이	ASP ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746 13.865 15.284 16.342 17.548 17.901	28,255 27,374 26,992 26,503 26,855 27,993 25,985 25,926 25,248 24,830 24,861 24,299 23,718 22,556	.36.597 .34.544 .34.766 .33.310 .33.650 .32.850 .35.856 .36.086 .36.534 .37.650 .38.236 .37.311 .38.015	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 7 6 6 8 8 8 6 8 7 6 6 6 6
CA CB C CO N CA CB C CO N CA CB C C	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 0.154 0.162 0.738 2.137 3.114 4.549	29.292 29.643 28.600 29.183 28.147 30.264 31,536 30.294 31,453 32,389 30,580 31,064 30,682 29,653 28,369 30,091	-23.561 -22.188 -21.245 -24.582 -24.703 -25.239 -26.355 -27.243 -26.307 -26.945 -24.864 -26.892 -26.785 -27.716	0.00 0.00	6 6 8 7 6 6 6 6 6 8 7 6 8 7 6	이 제 중 B C O O O O 전 S B C O O O	ASP ASP ASP ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746 13.865 15.284 16.342 17.548 17.901	28.255 27.374 26.992 26.503 26.853 27.993 25.985 25.926 25.248 25.756 24.830 24.891 24.299 23.718 22.556 24.415	.36.597 .34.544 .34.766 .33.461 .33.310 .33.650 .32.850 .35.856 .36.086 .37.650 .38.236 .37.311 .38.016 .37.716 .38.856	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 7 6 6 6 8 8 6 8 7 6 6 6 6 8
CA CB C CO N CA CB C CO N CA CB	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162 0.738 2.137 3.114 2.891	29.292 29.643 28.600 29.183 28.147 30.264 31.536 30.294 31.453 32.389 30.580 31.064 30.299 30.682 29.653 28.369	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -26.945 -24.864 -26.892 -27.365 -27.365 -27.365 -27.365	0.00 0.00	6 6 8 7 6 6 6 6 6 8 7 6 6 6 6 6 6 6 6 6	이 지	ASP ASP ASP ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746 13.865 15.284 16.342 17.548 17.901 18.151	28.255 27.374 26.992 26.503 26.855 27.993 25.985 25.926 25.248 25.756 24.830 24.861 24.299 23.718 22.556 24.415 23.391	.36.597 .34.544 .34.766 .33.461 .33.3650 .32.850 .35.856 .36.534 .37.650 .38.236 .37.311 .38.015 .37.716 .37.716 .38.856 .37.350	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 7 6 6 8 8 6 8 7 6 6 6 6 8 8
CA CB C CO N CA CB C CO N CA CB C C	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 0.154 0.162 0.738 2.137 3.114 4.549	29.292 29.643 28.600 29.183 28.147 30.264 31,536 30.294 31,453 32,389 30,580 31,064 30,682 29,653 28,369 30,091	-23.561 -22.188 -21.245 -24.582 -24.703 -25.239 -26.355 -27.243 -26.307 -26.945 -24.864 -26.892 -26.785 -27.716	0.00 0.00	6 6 8 7 6 6 6 6 6 8 7 6 8 7 6	이 제 중 B C O O O O 전 S B C O O O	ASP ASP ASP ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746 13.865 15.284 16.342 17.548 17.901	28.255 27.374 26.992 26.503 26.855 27.993 25.985 25.926 25.756 24.830 24.861 24.299 23.718 22.556 24.415 24.415	.36.597 .34.544 .34.766 .33.461 .33.310 .33.650 .32.850 .35.856 .36.086 .37.650 .38.236 .37.311 .38.016 .37.716 .38.856	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 7 6 6 8 8 6 8 7 6 6 6 6 8 8 8
CA CB C C O N CCA CB C CO N CA CB C C C C	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162 0.738 2.137 3.114 2.891 4.549 2.240	29.292 29.643 28.600 29.183 28.147 30.264 31.536 30.294 31.453 32.389 30.580 31.064 30.299 30.682 29.653 28.369 30.091 31.973	-23.561 -22.188 -21.245 -24.582 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -25.945 -24.864 -26.892 -26.785 -27.365 -26.775 -27.166 -27.607	0.00 0.00	6 6 8 7 6 6 6 6 6 8 7 6 6 6 6 6 6 6 6 6	이 지	ASP ASP ASP ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746 13.865 15.284 16.342 17.548 17.901 18.151	28.255 27.374 26.992 26.503 26.855 27.993 25.985 25.926 25.248 25.756 24.830 24.861 24.299 23.718 22.556 24.415 23.391	.36.597 .34.544 .34.766 .33.461 .33.3650 .32.850 .35.856 .36.534 .37.650 .38.236 .37.311 .38.015 .37.716 .37.716 .38.856 .37.350	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 7 6 6 8 8 8 7 6 6 6 8 8 8 7
CA CB CC ON CCA CB CC ON CA CB OC CO N	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162 0.738 2.137 3.114 2.891 4.549 2.240 2.2380 1.976	29.292 29.643 28.600 29.183 28.147 30.264 31.536 32.389 30.580 31.064 30.299 30.682 29.653 28.369 30.091 31.973 31.848 33.134	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -26.945 -24.864 -26.892 -26.785 -27.365 -27.365 -27.116 -27.607 -27.607 -27.607 -27.607	0.00 0.00	6 6 8 7 6 6 6 6 8 7 6 6 8 7 6 6 6 8 7 7 6 6 6 8 7 7 6 6 6 6	이 보 것 을 다 이 이 이 이 이 지 것 을 다 이 이 이 이 지 지 않다.	PRO ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746 13.865 15.284 16.342 17.548 17.901 18.151 13.476 12.844	28.255 27.374 26.992 26.503 26.855 27.993 25.985 25.926 25.756 24.830 24.861 24.299 23.718 22.556 24.415 24.415	.36.597 .34.544 .34.766 .33.461 .33.310 .33.650 .32.850 .35.856 .36.534 .37.650 .38.236 .37.311 .38.016 .37.716 .38.856 .37.313 .38.856 .37.313 .38.856 .37.313 .38.856 .37.313 .38.856 .37.313 .38.856 .37.313 .38.856 .38.856 .38.856 .38.856 .38.856 .38.856 .38.856 .38.856	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 7 6 6 8 8 6 8 7 6 6 6 6 8 8 8
CA CB CCONCA CB CCONCA CB CCONCA CB	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 3.859 2.822 2.171 2.582 3.344 -1.585 -2.056 -2.735 0.154 0.162 0.738 2.137 3.114 4.549 2.240 2.380 2.391 4.549 2.240 2.390 2.991	29,292 29,643 28,600 29,183 28,147 30,264 31,536 30,294 31,453 30,299 30,682 29,653 28,369 30,091 31,973 31,973 31,848 33,1344 34,355	-23.561 -22.188 -21.245 -24.582 -24.703 -25.229 -26.355 -27.243 -26.307 -26.945 -24.864 -26.892 -26.755 -27.116 -27.019 -27.019 -27.219 -27.219 -27.219	0.00 0.00	6 6 8 7 6 6 6 6 8 7 6 6 8 8 7 6 6 8 8 7 6 6 6 6	이 지 경 B	PRO ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.865 15.284 16.342 17.548 17.901 18.151 13.476 12.846 13.865	28.255 27.374 26.992 26.503 26.855 27.993 25.985 25.248 25.248 25.756 24.830 24.861 24.299 23.718 22.556 24.415 23.391 22.749 22.749	.36.597 .34.544 .34.766 .33.461 .33.310 .33.650 .32.850 .35.856 .36.534 .37.650 .38.236 .37.311 .38.856 .37.716 .38.856 .37.350 .38.918 .36.204 .36.204 .36.331	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 7 6 6 8 8 8 7 6 6 6 8 8 8 7
CA CB CCON CCA CB CCON CCA CB CCON CCA CB CCON CCA CB CCOON CCA CB CCOON CCA CB CCOON CCA CB CCOON CCA CB CCOON CCA CCOON CCA CCA CCA CCA CCA CCA CCA CCA CCA CC	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162 0.738 2.137 3.114 2.891 4.549 2.240 2.380 1.976 2.002 1.463	29,292 29,643 28,600 29,183 28,147 30,264 31,536 32,389 30,580 31,064 30,299 30,682 29,653 28,369 30,091 31,973 31,848 33,134 34,355 35,588	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -26.945 -24.864 -26.892 -26.785 -27.16 -27.16 -27.16 -27.019 -27.829 -27.829 -27.829 -27.829 -27.829 -27.829 -27.829 -27.829 -27.829 -27.829	0.00 0.00	6 6 8 7 6 6 6 6 8 7 6 6 8 8 7 6 6 6 6 6	๑ x 4 8 0 ๑ x 4 8 0 ๑ c ๑ c ๑ c ๑ x 4 8 0 ๑ x 4 8 0 ๑ x 4 8 0 ๑ x 4 8 0 ๑ x 4 0 ๑ x 5 0 ๑ x 5 0 ๑ x 5 0 ๑ x 5 0 ๑ x 5 0 ๑ x 5 0 <	PRO ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746 13.865 15.284 16.342 17.548 17.901 18.151 13.476 12.844 13.861 13.802 13.602	28.255 27.374 26.992 26.855 27.993 25.985 25.985 25.756 24.830 24.861 24.299 23.718 22.556 24.415 23.391 22.749 22.846 21.480 21.509	.36.597 .34.544 .34.766 .33.461 .33.310 .33.650 .32.850 .35.856 .36.986 .36.534 .37.650 .38.236 .37.311 .38.016 .37.716 .38.716 .37.350 .38.198 .36.204 .35.831 .34.805	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 7 6 6 8 8 6 8 7 6 6 6 8 8 8 6 6 8 7 6 6 6 6
CA CB CC CO N CCA CB CC CO N CCB CC CC O N CCB CC CC O N CCB CC CC O N CCB CC CC O N CCB CCC O N CCB CCC CCB CCB CCB CCB CCB CCB CCB C	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162 0.738 2.137 3.114 2.891 2.240 2.380 1.976 2.0066	29,292 29,643 28,600 29,183 28,147 30,264 31,556 32,389 30,580 31,064 30,299 30,682 29,653 28,369 30,091 31,973 31,848 33,134 34,355 35,588 35,303	-23.561 -22.188 -21.245 -24.582 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -25.945 -24.864 -26.892 -26.775 -27.116 -27.607 -28.824 -27.019 -27.829 -27.09 -27.829 -27.90 -2	0.00 0.00	6 6 6 8 7 6 6 6 6 8 7 6 6 8 8 7 6 6 6 6	០៩៤៥២០០០១៩៥២០០០០១៩៥០០	PRO ASP ASP ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746 13.865 15.284 16.342 17.548 17.901 18.151 13.476 12.844 13.861 13.502 12.369 12.369	28.255 27.374 26.992 26.503 26.855 27.993 25.926 25.926 25.248 25.756 24.830 24.829 23.718 22.556 24.415 23.391 22.749 22.846 21.480 21.509 20.978	.36.597 .34.544 .34.766 .33.310 .33.650 .32.850 .35.856 .36.086 .36.534 .37.650 .38.236 .37.311 .38.015 .37.716 .38.856 .37.350 .38.198 .36.204 .35.831 .34.805 .34.805 .34.805	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 7 6 6 6 8 8 6 8 7 6 6 6 8 8 7 6 6 6 8 8 7 6 6 6 6
CA CB CC CO N CC CB CC CO N CA CB CC CC CC CC CC CC CC CC CC CC CC CC	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162 0.738 2.137 3.114 2.891 4.549 2.240 2.380 1.976 2.002 1.463 2.002 1.463 2.002	29.292 29.643 28.600 29.183 28.147 30.264 31.536 30.294 31.463 32.389 30.580 31.064 30.299 30.682 29.653 28.369 30.91 31.973 31.848 33.134 34.355 35.588 35.303 36.033	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -25.945 -24.864 -26.892 -26.775 -27.116 -27.167 -27.167 -27.167 -27.169 -27.090 -27.090 -26.595 -27.090 -26.595 -27.595	0.00 0.00	6 6 6 8 7 6 6 6 6 8 7 6 6 8 8 7 6 6 6 6	이 지 경	PRO ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 15.042 15.430 12.619 16.12 13.865 15.284 16.342 17.548 17.901 18.151 13.476 12.844 13.861 13.476 12.844 13.861 13.476 12.844 13.861 13.476 12.844 13.861 13.502 12.369 12.466 11.285	28.255 27.374 26.992 26.503 26.855 27.993 25.926 25.248 25.756 24.830 24.861 24.299 23.718 22.556 24.419 22.749 22.749 22.846 21.509 20.978 20.978	.36.597 .34.544 .34.766 .33.461 .33.310 .33.650 .32.850 .35.856 .36.086 .36.534 .37.650 .38.236 .37.716 .38.915 .37.311 .38.915 .37.319 .36.204 .35.831 .34.803 .35.803	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 7 6 6 6 8 8 6 8 7 6 6 6 8 8 7 6 6 6 8 8 7 6 6 6 6
CA CB CC CO N CA CB CC CC CO N CA CB CC CC CC CC CC CC	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162 0.738 2.137 3.114 4.549 2.240 2.380 1.976 2.002 1.463 0.066 2.394 2.187	29,292 29,643 28,600 29,183 28,147 30,264 31,536 30,294 31,453 30,299 30,682 29,653 28,369 30,091 31,973 31,973 31,848 33,134 34,355 35,588 35,303 36,033 37,458	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -26.946 -26.892 -26.785 -27.365 -27.365 -27.116 -27.607 -28.824 -27.019 -27.019 -27.019 -27.090 -25.551 -25.963 -25.963 -25.963 -25.963	0.00 0.00	6 6 8 7 6 6 6 6 6 8 7 6 6 8 8 7 6 6 6 6	<u> </u>	PRO ASP ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.042 15.430 12.619 11.612 13.746 13.865 15.284 16.342 17.548 17.901 18.151 13.476 12.844 13.861	28.255 27.374 26.992 26.503 26.855 27.993 25.985 25.248 25.756 24.830 24.861 24.299 23.718 22.556 24.415 23.391 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749	.36.597 .34.544 .34.766 .33.461 .33.310 .33.650 .32.850 .35.856 .36.534 .37.650 .38.236 .37.716 .38.856 .37.716 .38.856 .37.358 .38.958 .36.204 .35.831 .34.805 .33.703 .35.832 .35.832	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 7 6 6 8 8 8 6 6 6 6 6 8 8 7 6 6 6 8 8 7 6 6 6 8 8 7 6 6 6 6
CA CB CC CO N CC CB CC CO N CA CB CC CC CC CC CC CC CC CC CC CC CC CC	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 -3.859 -2.822 -2.171 -2.582 -2.056 -2.735 -0.154 0.162 0.738 2.137 3.114 2.891 4.549 2.240 2.380 1.976 2.002 1.463 0.066 2.394 2.394 2.394	29,292 29,643 28,600 29,183 28,147 30,264 31,536 30,294 31,453 30,299 30,682 29,653 28,369 30,091 31,973 31,848 33,134 34,355 35,588 35,303 36,033 37,458 34,607	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -26.945 -24.864 -26.892 -26.785 -27.365 -27.365 -27.365 -27.116 -27.019 -28.824 -27.019 -27.829 -27.990 -26.551 -25.963	0.00 0.00	6 6 8 7 6 6 6 6 6 8 7 6 6 6 8 7 6 6 6 6	이 보증합니 이 이 이 이 리즈 (B) 이 이 이 이 리즈 (B)	PRO ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.430 12.619 11.612 13.746 13.865 15.284 16.342 17.548 17.901 18.151 13.476 12.844 13.861 13.802 12.369 12.466 11.285 10.082 9.892	28.255 27.374 26.992 26.503 26.855 27.993 25.985 25.248 25.248 25.756 24.830 24.861 24.299 23.718 22.749 22.749 22.846 21.509 20.978 22.166 22.366 23.730	.36.597 .34.544 .34.766 .33.461 .33.310 .33.650 .32.850 .35.856 .36.086 .36.534 .37.650 .38.236 .37.311 .38.015 .37.716 .38.3198 .36.204 .35.831 .34.805 .33.703 .35.182 .33.703	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 7 6 6 8 8 8 6 6 6 6 6 8 8 7 6 6 6 8 8 7 6 6 6 6
CA CB CC CO N CA CB CC CC CO N CA CB CC CC CC CC CC CC	PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3.944 3.399 -3.859 -2.822 -2.171 -2.582 -3.344 -1.585 -2.056 -2.735 -0.154 0.162 0.738 2.137 3.114 4.549 2.240 2.380 1.976 2.002 1.463 0.066 2.394 2.187	29,292 29,643 28,600 29,183 28,147 30,264 31,536 30,294 31,453 30,299 30,682 29,653 28,369 30,091 31,973 31,973 31,848 33,134 34,355 35,588 35,303 36,033 37,458	-23.561 -22.188 -21.245 -24.582 -24.703 -25.314 -25.229 -26.355 -27.243 -26.307 -26.946 -26.892 -26.785 -27.365 -27.365 -27.116 -27.607 -28.824 -27.019 -27.019 -27.019 -27.090 -25.551 -25.963 -25.963 -25.963 -25.963	0.00 0.00	6 6 8 7 6 6 6 6 6 8 7 6 6 8 8 7 6 6 6 6	<u> </u>	PRO ASP ASP ASP ASP ASP ASP ASP GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	B B B B B B B B B B B B B B B B B B B	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.926 11.178 12.575 13.194 14.659 15.430 12.619 11.612 13.746 13.865 15.284 16.342 17.548 17.901 18.151 13.476 12.844 13.861 13.802 12.369 12.466 11.285 10.082 9.892	28.255 27.374 26.992 26.503 26.855 27.993 25.985 25.248 25.756 24.830 24.861 24.299 23.718 22.556 24.415 23.391 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749 22.749	.36.597 .34.544 .34.766 .33.461 .33.310 .33.650 .32.850 .35.856 .36.534 .37.650 .38.236 .37.716 .38.856 .37.716 .38.856 .37.358 .38.958 .36.204 .35.831 .34.805 .33.703 .35.832 .35.832	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 7 6 6 8 8 8 6 6 6 6 6 8 8 7 6 6 6 6 8 8 7 6 6 6 6

N	ASN	В	3	3.542	35.474	-29.338	0.00	0.00	7
CA	ASN	В	3	4.787	35.875	-29.954	0.00	0.00	6
CB	ASN	B	3	5.803	36.330	-28,895	0.00	0.00	6
<u>c</u> _	ASN	B	3	5.406	37.590	-28.157	0.00	0.00	6
0_	ASN	<u>B</u>	3	4.824	38.511	-28.729	0.00	0.00	8
N	ASN	B	3	5.713	37.619	-26.865	0.00	0.00	7
C_	ASN	B	3	5.455	34.830	-30.834	0.00	0.00	6
0_	ASN	<u>B</u>	3	6.597	35.051	-31.267	0.00	0.00	8
N	LEU	B	3	4,802	33.721	-31,152	0,00	0.00	7
CA	LEU	B	3	5.422	32.668	-31.951	0.00	0.00	6
CB	LEU	B	3	4.857	31.306	-31.559	0.00	0.00	6
<u>c</u> _	LEU	B	3	5.462	30.051	-32,183	0.00	0.00	6
Č_	LEU	В	3	6.981	30.095	-32.216	0.00	0.00	6
Č_	LEU	B	3	4.989	28.809	-31.438	0,00	0.00	6
C	LEU	B	3	5.272	32.938	-33.443	0.00	0.00	6
0	LEU	B	3	4.492	32.311	-34.153	0.00	0.00	7
N_	ASP	B	3	6.089	33.859	-33.940	0.00	0.00	
CA	ASP	B	_	6.054	34.323	-35.311	0.00		6
CB	ASP	용	3	6.691	35,718	-35.391		0.00	$\overline{}$
Č	ASP ASP	B	3	5,944 6.598	36.763 37.704	-34.591 -34.092	0.00	0.00	8
0		В	3	4.707	36.655	-34,463	0.00	0.00	8
<u>e</u>	ASP ASP	В	3	6.790	33.400	-34.463	0.00	0.00	6
0	ASP	B	3	6.462	33.348	-37.457	0.00	0.00	8
N	ASN	В	3	7.794	32.689	-35.773	0.00	0.00	7
CA	ASN	В	3	8.586	31.789	-36.597	0.00	0.00	6
CB	ASN	В	3	9,729	32.580	-37.246	0.00	0,00	6
C	ASN	В	3	9,497	32.981	-38,683	0.00	0.00	6
ŏ	ASN_	В	3	9.025	32.186	-39.498	0.00	0,00	8
N	ASN	В	3	9.828	34.229	-39.001	0.00	0.00	7
Ĉ.	ASN	В	3	9.189	30.642	-35.796	0.00	0.00	6
c	ASN.	В	3	10.253	30.781	-35.192	0.00	0.00	8
N	PRO	В	3	8.538	29.485	-35.827	0.00	0.00	7
C	PRO	В	3	7.263	29.247	-36.544	0,00	0.00	6_
CA	PRO	В	3	9.018	28,297	-35.149	0.00	0.00	6
CB	PRO	В	3	8,089	27.190	-35.633	0.00	0.00	6
С	PRO	В	3	6.862	27.865	-36.120	0.00	0.00	6
C	PRO	В	3_	10.462	27.972	-35.491	0.00	0.00	6
0	PRO	В	3	10.926	28.255	-36.597	0.00	0.00	8
N	ASP	<u>B</u>	3	11.178	27.374	-34.544	0.00	0.00	7
CA	ASP	В	3	12.575	26.992	-34.766	0.00	0.00	6
CB	ASP	В	3	13.194	26.503	-33.461	0.00	0.00	6
C_	ASP	В	3	14.659	26.855	-33.310	0,00	0.00	6
Ŏ.	ASP	В	3	15.042	27.993	-33.650	0.00	0.00	8
ō_	ASP	B	3	15.430	25.985	-32,850	0.00	0.00	6
<u>c</u> _	ASP	В	3	12.619	25.926	-35.856	0.00	0.00	8
0	ASP	В	3	11.612	25.248	-36.086		0.00	7
N CA	GLU	B	3	13.746 13.865	25.756 24.830	-36.534 -37.650	0,00	0.00	6
Ī		B	3	15.284	24.861	-38,236	0.00	0.00	6
CB	GLU	В			24.299	-37.311	0.00	0.00	6
C	GLU	B	3	16.342 17.548	23.718	-38.015	0.00	0.00	6
		В	3	17.901	22,556	-37.716	0.00	0.00	8
<u>o</u>	GLU	В		18.151	24.415	-38.856	0.00	0.00	8
O C	GLU	В	3	13.476	23.391	-37.350	0.00	0.00	6
0	GLU	В	3	12.844	22,749	-38.198	0.00	0.00	8
N	GLY	В	3	13.861	22.846	-36.204	0.00	0.00	7
CA	GLY	В	3	13.502	21.480	-35.831	0.00	0.00	6
C	GLY	В	3	12.369	21.509	-34.805	0.00	0.00	6
0	GLY	В	3	12,466	20.978	-33.703	0.00	0.00	8
N	CYS	В	3	11.285	22.166	-35.182	0.00	0.00	7
CA	CYS	В	3	10.082	22.306	-34.372	0.00	0.00	6
CB	CYS	В	3	9,892	23.730	-33.873	0.00	0.00	6
80	CVS	F	3	10 917	24 160	-32 442	0.00		ì

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c I	CYS	В	3	8.927	21.845	-35.264	0.00	0.00	6
6	CYS	В	3	9.017	22.049	-36.482	0.00	0.00	8
N	ASP	В	3	7.998	21.058	-34.736	0.00	0.00	7_
	ASP	В	3	6.997	20.426	-35.592	0.00	0.00	6
CA	ASP	В	3	7.556	19.082	-36.082	0.00	0.00	6
CB	ASP	В	3	7,871	19.058	-37.563	0.00	0,00	6
夨	ASP	В	3	8.818	19.759	-37.983	0.00	0.00	8
얼니		В	3	7.184	18.328	-38.308	0.00	0,00	8
힞ㅣ	ASP				20.184	-34.878	0.00	0.00	6
의	ASP	B	3	5.677	19.653	-35.468	0.00	0.00	8
9	ASP	<u>B</u>	3	4.734		-33.600	0.00	0.00	7
И	LEU	B	3	5.620	20.535		0.00	0.00	6
CA	LEU	₽.	3	4.427	20,303	-32.798			6
CB.	LEU	B.	3.	4.826	20,015	31.345	0.00	0.00	
C_	LEU	B	3	5,969	19.018	-31.137	0.00	0,00	5
C_i	LEU	B	3	6.737	19.332	-29.863	0.00	0.00	6
C _	LEU	В	3	5.434	17,595	-31.107	0.00	0.00	6
С	LEU	В	3	3.473	21.489	-32.832	0.00	0.00	6
0	LEU	В	3	3,846	22.600	-33.214	0.00	0.00	8
N	ASP	В	3	2,236	21.241	-32,412	0.00	0.00	17
CA	ASP_	В	3	1.244	22,309	-32.329	0.00	0.00	6
CB	ASP	В	3	-0.181	21.783	-32.446	0.00	0.00	6
C	ASP	В	3	-1,217	22.890	-32.426	0.00	0.00	6
0	ASP	В	3	-2.341	22.651	-31.938	0.00	0.00	8
ō_	ASP	В	3	-0.914	24.007	-32.895	0.00	0.00	8
č_	ASP	В	3	1.442	23,030	-30.995	0.00	0.00	6
ŏ	ASP	В	3	1,028	22.555	-29.939	0.00	0.00	8
N	PHE	В	3	2.068	24.200	-31.053	0.00	0.00	7
CA	PHE	В	3	2.382	24.988	-29.873	0.00	0.00	6_
_		B	3	3.714	25.719	-30.088	0.00	0.00	6
<u>CB</u>	PHE	В	3	4.923	24.845	-30,234	0,00	0.00	6
<u>c</u>	PHE	_	_	5.719	24,932	-31.366	0.00	0.00	6
<u>ç</u> _	PHE	용	3	5.281	23.937	-29,250	0.00	0.00	6
<u>C</u>	PHE	HB.	_		24.136	-31.515	0.00	0.00	6
CE	PHE	I B	13	6.838	23.138	-29,391	0.00	0.00	6
CE	PHE	<u> </u>	13	6.397		-30,526	0.00	0.00	6
<u>CZ</u>	PHE	Į₽	13	7.178	23,238	-29.516	0.00	0.00	6
<u>_</u>	PHE	B	3	1,310	26.009	-28.844	0.00	0.00	8
0	PHE	B	3	1.582	27,004		0.00	0.00	7
N_	VAL	Į₿.	3	0.080	25.802	-29.970		0,00	6
CA	VAL	В	13	-1.045	26.703	-29,776	0.00	0.00	6
CB	VAL	<u> B</u>	13	-1.714	26.595	-28,403	0.00		6
C	VAL	B	13	-3.069	27.293	28,427	0.00	0.00	6
Ç	VAL	↓Β	13	-1.897	25.146	-27,974	0.00	0.00	_
С	VAL	↓B	13	-0.584	28.134	-30.056	0.00		6
0	VAL	В	3	-0.538	28.999	-29.186	0.00		8
N	PRO	<u> B</u>	13	-0.218	28.392	-31.313	0.00	_	17
С	PRO	В	3	-0.189	27,370	-32.404	0.00		6
CA	PRO	В	3	0.555	29.542	-31.696	0.00		6
СВ		В	3	0.729	29,417	-33,216	0.00	_	6
C	PRO	В	3	-0.004	28.202	-33.638			6
Ĉ.	PRO	В	_	0.136	30,946	-31,358			6
ō	PRO	В	_	1.069	31.681	-30.971	0.00		8
N	HIS	В	_	-1.067	31.459	-31,590	0.00		17
CA		ΤĒ	_	-1.295	32.881	-31.308	0.00	0.00	16
CB		B	_	-1.357	33.688	-32.615		0.00	6
C	HIS	ĺβ	_	-0.007	33.940	-33.216			6
c	HIS	B	_	0.948	34.859	-32,951	0.00	0.00	6
		B		0.512	33.117	-34.194	_		7
N	HIS	B			33.544	-34.535			6
l CE		_	_	1.712		-33.793			7
N	HIS	13		2,002	34.598	-30.476			6
C	HIS	48		-2.527	33.177				8
0	HIS	12	_	-2.554	34.170				7
N	GLU		_	-3.557	32.353				6
CA	GLU	LE	3 3	-4.794 -5.912	32.567 33.027				6_

<u> </u>	67.17	р	3	-6,321	34.482	-30.651	0.00	0.00	6
ջㅣ	GLU	B B	3	-7.794	34.699	-30.938	0.00	0.00	6
	GLU	В	3	-8.149	34.907	-32.118	0.00	0.00	8
ŏ	GLU	В	3	-8.606	34.659	-29.990	0.00	0.00	8
č	GLU	B	3	-5.195	31.281	-29.152	0.00	0.00	6
ŏ	GLU	В	3	-4.761	30.196	-29.536	0.00	0.00	8
N	ALA	В	3	-5.996	31.431	-28.105	0,00	0.00	7
CA	ALA	B	3	-6.462	30.276	-27,348	0.00	0.00	6
CB	ALA	В	3	-7.391	30.719	-26.230	0.00	0.00	6
C	ALA	В	3	-7.177	29.299	-28,276	0.00	0.00	6
ŏ	ALA	В	3	-7.907	29.717	-29.176	0.00	0.00	8
N	ARG	B	3	-6.936	28.009	-28.069	0.00	0.00	7
CA	ARG	В	3	-7.611	26.990	-28.866	0.00	0.00	6
CB	ARG	В	3	-6,659	25.870	-29.277	0.00	0.00	6
C	ARG	В	3	-7.277	24.868	-30.241	0.00	0.00	6
č	ARG	В	3	-6.937	25.210	-31.683	0.00	0.00	6
N	ARG	В	3	-5.570	24.821	-32.015	0.00	0.00	7
CZ	ARG	В	3	-4.577	25.684	-32,190	0.00	0.00	6
N	ARG	В	3	-4.790	26.990	-32.071	0.00	0.00	7
N	ARG	В	3	-3.363	25,243	-32,490	0.00	0.00	7
Ĉ_	ARG	В	3	-8.788	26.424	-28.078	0.00	0.00	6
ō_	ARG	В	3	-8.750	26,377	-26,850	0,00	0.00	8
N	GLN	В	3	-9.849	26.059	-28.783	0.00	0.00	7
ĈA	GLN	В	3	-11.015	25.438	-28,159	0.00	0.00	6
CB	GLN	В	3	-12.291	25,904	-28.851	0.00	0.00_	6
C	GLN	В	3	-13,555	25,155	-28.470	0.00	0.00	6
Č	GLN	В	3	-14.199	25.707	-27.216	0.00	0.00	6
ŏ	GLN	В	3	-14.433	24.978	-26,251	0.00	0.00	8
N	GLN	В	3	-14.484	27.003	-27.223	0.00	0.00	7
Ĉ	GLN	В	3	-10.861	23.924	-28,260	0.00	0.00	6
ō	GLN	В	3	-10.370	23.446	-29.287	0.00	0.00	8
N	VAL	В	3	-11.116	23.192	-27.185	0.00	0.00	7
CA	VAL	В	3	-11.017	21.734	-27.199	0.00	0.00	16
CB	VAL	В	3	-9.838	21.147	-26.417	0.00	0.00	6
C	VAL	В	3	-8.490	21.559	-27.001	0.00	0.00	16
C	VAL	В	3	-9.893	21,513	-24.942	0.00	0.00	6
С	VAL	В	3	-12.333	21.158	-26.668	0.00	0.00	16
0_	VAL	B	3	-13.106	21.923	-26.081	0.00	0.00	8
N	SER	B	3	-12.589	19,867	-26,865	0.00	0.00	17
CA	SER	B	3	-13.873	19,313	-26,464	0.00	0.00	16
CB	SER	<u>B</u>	3	-14,642	18.853	-27,720	0.00	0,00	16
0	SER	B	3	-15.916	18.362	-27.327	0.00	0.00_	8
C	SER	B	3	-13.869	18.181	-25.456	0.00	0.00	8
0	SER	В	3	-14.583	18.304	-24.447	0.00	0.00	7
N.	GLY	₽.	3	-13,158	17,086	-25.686	0.00	0.00	6
CA	GLY	↓B	13	-13.190	15.973	-24.741	0.00	0.00	6
C	GLY	IB.	3	-11.855	15,729	-24.054	0.00	0.00	8
0	GLY	Į₿.	3	-11.362	14.600	-24.022	0.00	0.00	7
N	MET	B	13	-11.268	16.780	-23,500	10.00	0.00	6
CA	MET	B	13	-9.980	16,684	-22,822	0.00		6
CB		B	13	-9.246	18.020	-22.944	0.00	0.00	6
C	MET	₽	13	-7.910	18.112	-22.774	0.00	_	1
SD		B	13	-6.921	19.519	-21.993			6
CE		<u> </u>	13	-7.795	20.874		0.00	_	6
C	MET	부	13	-10,160	16.294	-21.361	_	_	8
0	MET	무	13	-10.876	16.976	-20.627	_		7
N	GLU	B	3	-9,508	15.214	-20.941	0.00		6
CA		B	3	-9.616	14.755	-19.560	_		6
CB		+B	13	-10.116		-19.526			6
C	GLU	B	13	-11.311	13.080				
C	GLU	<u>B</u>	13	-11,829		-18.694		_	6
0	GLU	<u> ∔₿</u>	13	-12.765					8
00	GLU	B	3	-11.300 -8.306	10.785				6

0	GLU	В	3	-8.326	15.026	-17.565	0.00	0.00	8
N	TYR	В	3	-7.171	14.764	-19,474	0.00	0.00	7
CA	TYR	В	3	-5.872	14.836	-18.820	0.00	0.00	6
CB	TYR	В	3_	-5.066	13.550	-19.063	0.00	0.00	6
C	TYR	В	3	-5.646	12.321	-18.401	0.00	0.00	6
C	TYR.	В	3	-6.417	11.425	-19.132	0.00	0.00	6
CE	TYR	В	3	-6.978	10.312	-18.535	0.00	0.00	6
С	TYR	В	3	-5.454	12.071	·17.051	0.00	0.00	6
CE	TYR	В	3	-6.009	10.959	·16.445	0.00	0.00	6
CZ	TYR	В	3	-6.769	10.085	-17.192	0,00	0.00	6
0_	TYR	B	3	-7.326	8.976	-16.597	0.00	0.00	8
C	TYR	В	3	-5.034	16.018	-19.294	0.00	0.00	6
<u></u>	TYR	В	3	-5.017	16.342	-20.482	0.00	0.00	8
N_	THR	В	3	-4.282	16.626	-18.381	0.00	0.00	7
CA	THR	В	3	-3.292	17.636	·18.718	0.00	0.00	6
CB	THR	В	3	-3.692	19.082	-18.388	0.00	0.00	6
0	THR	В	3	-4.186	19.170	-17.044	0.00	0.00	8
ļ <u>c</u>	THR	В	3	-4.736	19.619	-19,354	0.00	0.00	6
C	THR	В	3	-1.972	17.344	-17.995	0.00	0.00	6
0_	THR	В	3	-1.947	16.819	-16.887	0.00	0.00	7
N_	LEU	B	3	-0.873	17,725	·18.626	0.00	0.00	_
CA	LEU	В	3	0.473	17.536	-18.101	0.00	0.00	6
CB	LEU	B	3	1.262 2.652	16.734 16.201	-19.134 -18.820	0.00	0.00	6
C	LEU	В	3	2.591	14.952	-17.955	0.00	0.00	6
C	LEU	В	3	3,405	15.888	-20,110	0.00	0.00	6
č	LEU	В	3	1.144	18.878	-17.835	0.00	0.00	6
Ö.	LEU	В	3	1.190	19,712	-18.745	0.00	0.00	8
N	CYS	В	3	1,623	19.127	-16.616	0.00	0.00	7
CA	CYS	B	3	2.341	20,362	-16.319	0.00	0.00	6
СВ	CYS	В	3	1.761	21.154	-15.146	0.00	0.00	6
SG	CYS	В	3	2.784	22.605	-14.750	0.00	0.00	
C	CYS	В	3	3.817	20,081	-16.038	0.00	0.00	6
0	CXS	В	3	4.172	19.382	-15.093	0.00	0.00	8
N	ASN	В	3	4.681	20.666	-16.852	0.00	0.00	17
CA	ASN	В	3	6.113	20.457	-16.801	0.00	0.00	6
CB	ASN	В	3	6.561	20,213	-18.260	0.00	0.00	6
C	ASN	В	3_	6.424	18,773	-18.697	0.00	0.00	6
0	ASN	В	3	6.208	17.872	-17.887	0.00	0.00	8
N	ASN	В	3	6.574	18,544	-19.997	0.00	0.00	7
C_	ASN	<u>B</u>	3	6.977	21.568	·16.233	0.00	0.00	6
0	ASN	В	3	6.881	22,730	-16.617	0.00	0.00	8
N	SER	В	3	7.954	21.187	-15.413	0.00	0.00	7
CA	SER	В	3	8,937	22.105	.14.851	0.00	0.00	6
CB	SER	B	3	8,579	22.503	-13.422 -13.359	0.00	0.00	8
le-	SER	<u>B</u>	3	8.046	23.810 21.445	-13.359	0.00	0.00	6
6	SER	B B	3	10.315	20.427	-14.194	0.00	0.00	8
N	PHE	B	3	10.513	21.977	-15.649	0.00	0.00	7
_		В	3	11.238 12.588		·15.761	0.00	0.00	6
CA CB	PHE	В	3	12.887	21.434	.17.185	0.00	0.00	6
l c	PHE	В	3	11.830	20.141	-17.862	0.00	0.00	6
Č	PHE	В	3	11.314	20.531	-19.087	0.00	0.00	6
C	PHE	В	3	11.336	18.984	-17.280	0.00	0.00	6
CE	PHE	В	3	10.330	19.791	-19.714	0.00	0.00	6
CE	PHE	В	3	10.343	18.247	-17.894	0.00	0.00	6
CZ	PHE	В	3	9.845	18,646	-19.119	0.00	0.00	6
C	PHE	В	3	13.600	22.501	-15.347	0.00	0.00	6
lŏ	PHE	В	3	13.931	23.374	-16.150	0.00	0.00	8
N	GLY	В	3	14.102	22.456	-14.116	0.00	0,00	7
CA	GLY	В	3	14.860	23.556	-13.571	0.00	0.00	6
C	GLY	В	3	16.362	23,470	-13.465	0.00	0.00	6
0	GLY	В	3	17.009	22,450	-13.680	0.00	0.00	8
N	PHE	В	4	16.944	24.615	-13,095	0.00	0.00	7

CB PHE B 4 18.720 26.141 -12.373 0.00 0.00 C PHE B 4 18.922 27.221 .13.330 0.00 0.00 C PHE B 4 17.267 28.087 -13.002 0.00 0.00 C PHE B 4 18.916 27.368 -14.558 0.00 0.00 CE PHE B 4 16.866 29.079 -13.876 0.00 0.00 CE PHE B 4 16.866 29.079 -13.876 0.00 0.00 CCZ PHE B 4 17.495 29.215 -15.095 0.00 0.00 CCZ PHE B 4 17.495 29.215 -15.095 0.00 0.00 CCZ PHE B 4 18.862 23.638 -11.971 0.00 0.00 CCZ PHE B 4 18.466 23.237 -11.054 0.00 0.00 CC PHE B 4 18.466 23.237 -11.054 0.00 0.00 CC PHE B 4 20.035 23.085 -12.261 0.00 0.00 CA GLY B 4 20.035 23.085 -12.261 0.00 0.00 CC GLY B 4 20.342 19.568 -13.554 0.00 0.00 CC GLY B 4 19.372 20.671 -13.162 0.00 0.00 CC GLY B 4 17.80 18.774 -13.162 0.00 0.00 CC GLY B 4 17.80 18.774 -13.162 0.00 0.00 CC GLY B 4 17.80 18.774 -13.162 0.00 0.00 CC GLY B 4 17.686 19.478 -13.171 0.00 0.00 CC GLY B 4 17.860 18.774 -13.036 0.00 0.00 CC GLY B 4 17.686 19.478 -12.237 0.00 0.00 CC GLY B 4 15.986 19.478 -12.237 0.00 0.00 CC GLY B 4 15.896 19.478 -12.237 0.00 0.00 CC GLY B 4 17.658 19.325 -9.993 0.00 0.00 CC GLY B 4 15.976 19.325 -9.993 0.00 0.00 CC GLY B 4 15.976 19.325 -9.993 0.00 0.00 CC THR B 4 14.911 18.730 -9.243 0.00 0.00 CC THR B 4 14.911 18.730 -9.243 0.00 0.00 CC THR B 4 14.143 20.085 -12.401 0.00 0.00 CC ASN B 4 14.167 17.308 -15.401 0.00 0.00 CC ASN B 4 14.167 17.308 -15.401 0.00 0.00 CC ASN B 4 14.167 17.308 -15.404 0.00 0.00 CC ASN B 4 14.167 17.308 -15.404 0.00 0.00 CC SER B 4 4.688 15.631 -13.555 0.00 0.00 CC SER B 4 4.6897 16.650 -13.3322 0.00 0.00 CC GLY B 4 17.993 18.405 -14.170 0.00 0.00 CC SER B 4 4.581 16.596 -13.371 0.00 0.00 CC GLY B 4 17.990 17.509 -13.491 0.00 0.00 CC GLY B 4 17.993 18.405 -14.170 0.00 0.00 CC GLY B 4 17.993 18.405 -14.170 0.00 0.00 CC GLY B 4 17.993 18.405 -14.170 0.00 0.00 CC GLY B 4 17.993 18.405 -14.170 0.00 0.00 CC GLY B 4 17.993 18.405 -14.170 0.00 0.00 CC GLY B 4 17.990 17.509 -13.491 0.00 0.00 CC GLY B 4 1.306 1.306 1.3071 0.00 0.00 CC GLY B 4 1.306 1.306 1.3071 0.00 0.00 CC GLY B 4 1.216 16.676 -14.906 0.00 0.00 CC LEU B 4 2.249 16.710 -12.751 0.00 0.0										
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O GLY B	16					20.579	4_	B	GLY	CA
N	16	0.00	0.00	-12.082	20.638	20.138	4	В	GLY	C.
N	18	0.00	0.00	-11.554	19.568	20.442	4	В	GLY	0
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N	8	0.00	0.00	-13.171	17.555		4	В	GLY	
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N	18	0.00	0.00	-11.745	16.434	11.653	4	В	ASN	0
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CB SER B 4 5.822 15.765 -15.365 0.00 0.00 O SER B 4 6.920 15.961 -16.224 0.00 0.00 C SER B 4 4.581 16.334 -13.302 0.00 0.00 N LEU B 4 4.581 15.411 -12.495 0.00 0.00 N LEU B 4 3.471 17.032 -13.484 0.00 0.00 CA LEU B 4 2.249 16.710 -12.751 0.00 0.00 CB LEU B 4 2.585 17.940 -10.488 0.00 0.00 C LEU B 4 2.137 16.855 -9.521 0.00 0.00 C LEU B 4 1.166 16.376 -13.777 0.00 0.00 C LEU B 4 1.216 16.	6	0.00	0.00	-14.170	16.715	5.782	4	В	SER	CA
O SER B 4 6,920 15.961 -16,224 0.00 0.00 C SER B 4 4,581 16.334 -13.302 0.00 0.00 O SER B 4 4,688 15.411 -12.495 0.00 0.00 N LEU B 4 3,471 17.032 -13,484 0.00 0.00 CA LEU B 4 2,249 16.710 -12.751 0.00 0.00 CB LEU B 4 2,585 17.940 -10.488 0.00 0.00 C LEU B 4 2,137 16.855 -9.521 0.00 0.00 C LEU B 4 1,166 16.376 -13.777 0.00 0.00 C LEU B 4 1,216 16.876 -14.906 0.00 0.00 C LEU B 4 1,216 16.3	6	0.00	0.00				4			
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C LEU B 4 1.166 16.376 -13.777 0.00 0.00 O LEU B 4 1.216 16.376 -14.906 0.00 0.00 N ILE B 4 0.306 15.412 -13.474 0.00 0.00 CA ILE B 4 -0.784 15.330 -14.359 0.00 0.00 CB ILE B 4 -0.723 13.580 -14.866 0.00 0.00 C ILE B 4 2.009 13.208 -15.599 0.00 0.00 C ILE B 4 0.471 13.365 15.798 0.00 0.00 C ILE B 4 0.661 11.935 -16.250 0.00 0.00 C ILE B 4 2.112 15.245 -13.630 0.00 0.00 C ILE B 4 -2.303 14.764 -12.516 0.00 0.00	6	0.00	0.00	-9.521	16.855		4	В	LEU	LC I
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	8	0.00	0.00							
	7						_	_		
	+					-3.015	_	_	PHE	
CA PHE B 4 -4.320 16.257 -13.690 0.00 0.00	16							_		
CB PHE B 4 -4.534 17.768 -13.596 0.00 0.00	6		0.00	-13.596		-4.534	4	В	PHE	CB
C PHE B 4 -3.628 18.449 -12.608 0.00 0.00	6	0.00	0.00 i	-12,608	18.449	-3,628	4	В	PHE	l C
C PHE B 4 -2,421 18.992 -13.015 0.00 0.00	6	0.00	0.00					_		
C I SAM I P I T I PLIPA I ANIMA I ANIMAD I CONTINUE	-		2.34 1	ANIMAN.		P				

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С	PHE	: B	4	-3.974	18.529	-11.268	0.00	0.00	6
CE	PHE	B	4	-1.583	19.615			0.00	6
CE	PHE	B	4	-3.142	19.154				6
CZ	PHE		_	-1.948	19.701	-10.780		_	6
C	PHE	В	4	-5.433	15.582				6
0	PHE	_	_	-5.299	15.351	-15.685	_	_	8
N	LYS	В		-6.508	15.211	-13.796	_		7
CA	LYS	B	_	-7.621	14.523	-14.445			6
CB	LYS	B		-7.615	13.048	-14.064	0.00		6
C	LYS	B		-8.945	12.390	-13.771	0.00		6
C	LYS	ΤĒ	4	-9.066	11.022	-14.425	0.00		6
CE	LYS	B	4	-9.980	10.113	-13.620	_	0.00	6
NZ	LYS	B	14	-11.257	10.787	-13.251	0.00	0.00	7
C	LYS	B	4	-8.942	15,210	-14,115	0.00	0.00	6
o_	LYS	B	4	-9.212	15.563	-12.970	0.00	0.00	8
N	LYS	В	4	-9.765	15.394	-15.142	0.00	0.00	7
CA	LYS	B	4	-11,067	16.029	-14.990	0.00		_
CB	LYS	₩ B	4					0.00	16
C	LYS	В	4	11.634	16.391	-16,366	0.00	0.00	16
č	LYS	B	14	-12.465	17.660	-16.399	0.00	0.00	16
CE	LYS	В	_	-13.928	17.380	-16,089	0.00	0.00	6
NZ		_	4	-14.796	18,590	-16.391	0.00	0.00	6
C	LYS	B	4	-14.788	19.577	-15.277	0.00	0.00	7
0	LYS	_	_	-12,043	15.106	-14.269	0.00	0.00	6
N	ILE	B	4	-12.185	13.944	-14,652	0.00	0.00	8
		_	_	-12.698	15.610	-13.230	0.00	0.00	7
CA CB	ILE	B	4	13.715	14.833	-12.522	0.00	0.00	6
C	ILE	B	4	-13.357	14.578	-11.053	0.00	0.00	6
C	ILE		_	-14.584	14.417	-10,163	0.00	0.00	6
c	ILE	B	4	-12.478	13,322	-10.945	0.00	0.00	6
C_		-	4	-11.906	13.091	-9.564	0.00	0.00	6
ŏ	ILE	B	4	-15.060	15.546	-12.659	0.00	0.00	16
_		w	_	-15.481	15,769	-13.816	0.00	0.00	8
01 01	WAT	₩	5	7.437	27.399	-19,536	0.00	0.00	8
01	WAT	₩	5	14.567	28.629	2.535	0.00	0.00	8
01	WAT	w	5	12.567	39.281 39.856	-19.752 -2.839	0.00	0.00	8
01	WAT	₩	5	12.015	35.396	-4.390	0.00	0.00	8
01	WAT	w	5	3.319	30.612	-17.061	0.00	0.00	8
01	WAT	w	5	16.094	26,918	-5.435	0.00	0.00	8
01	WAT	w	5	8.209	39,238	-23.056	0.00	0.00	8
O1	WAT	w	5	18.807	20.357	-7.960	0.00	0.00	8
01	WAT	w	5	-13.395	21.538	1.565	0.00	0.00	8
01	WAT	w	5	24.930	41.412	-15,101	0.00	0.00	8
01	WAT	w	5	21.290	38.294	-20.198	0.00	0.00	8
01	WAT	w	5	15.902	50.395	9.343	0.00	0.00	8
01	WAT	w	5	-2.782	8.166	-8.701	0.00	0.00	8
01	WAT	w	5	18.738	27.340	-19.439	0.00	0.00	8
01	WAT	w	5	-1.747	11.046	-6.351	0.00	0.00	8
Ŏî.	WAT	w	5	6.680	14.967	-34.855	0.00	0.00	8
01	WAT	w	5	22.057	48.723	-9.374	0.00	0.00	8
01	WAT	w	5	-6.611	39,165	-2.117	0.00	0,00	8
01	WAT	w	5	13.624	8.609	-12.588	0.00	0.00	8
01	WAT	w	5	9.255	7.220	-29,727	0.00	0.00	8
01	WAT	w	5	-5.734	12,781	-26,436	0.00	0.00	8
01	WAT	W	5	21.680	48.304	-5.494	0.00	0.00	8
Ŏî l	WAT	w	5	15.561	45.821	-2.731	0.00	0.00	8
01	WAT	W	5	0.642	10.760	10.232	0.00	0.00	8
01	WAT	w	5	0.990	48.249	1.863	0.00	0.00	8
01	WAT	W	5	20.915	17.564	-30,457	0.00	0.00	8
01	WAT	₩	5	16.863	23.110		_		_
oi l	WAT	₩	5_	9.631	43.771	-17.142 -32.080	0.00	0.00	8
01	WAT	w	5	-9.127	0.966	13.608	0.00	0.00	_
oi	WAT	W	5	23.605				_	8
<u> </u>	441	. 77	٧.,	CUD.UA	14.000 j	-18.246	0.00	0.00	8

00/753	343			401	1110			PCT/U	JS00/161
	Live	T .	2	5.691	-3.942	0.967	1.00	59.01	N
N CA	LYS	A	12	6.181	-2.836	1.843	1.00	59.40	C
CA C	LYS	A	2	7.698	-2.690	1.729	1.00	58.26	c
<u>C</u> 0		A	1 2	8.433	-3.674	1.800	1.00	58.76	0
	LYS	TÃ -	$\frac{1}{2}$	5.769	-3.035	3.298	1.00	59.99	c
CB CC		A	1 2	6.542	-2.171	4.281	1.00	60.75	c
CG	LYS	A	1 2	5.621	-1.406	5.211	1.00	61.69	c
CD	LYS		2	5.333	-0.004	4.701	1.00	62.26	T c
CE	LYS	I A	2	5.569	1.027	5.757	1.00	62.54	N
NZ	LYS	1 <u>A</u>			-1.457	1.572	1.00	56.23	N
N	ARG	I A	3	9.587	-1.211	1.400	1.00	54.46	c
CA	ARG	I A	3			2.629	1.00	53.07	Ċ
<u>c </u>	ARG	A	3	10.254	-0.621	3.142	1.00	53.04	0
0	ARG	A	3	9.908	0.442	0.163	1.00	54.51	C
СВ	ARG	I A	3	9.797	-0.330		1.00	54.53	c
CG	ARG	A	3	9.528	-1.088	-1.137			c
CD	ARG	Α	3	9.198	-0.128	-2.267	1.00	54.58	N
NE	ARG	Α	3	10.369	0.430	-2.917	1.00	54.17	
CZ	ARG	A	3	11.239	-0.232	-3.660	1.00	54.41	C
NHI	ARG	A	3	11.105	-1.535	-3.867	1.00	54.22	N
NH2	ARG	Α	3	12.268	0.409	-4.208	1.00	55.03	N
N	ARG	Α	4	11.255	-1.351	3.116	1.00	51.11	N
CA	ARG	Α	4	12.014	-0.957	4.293	1.00	49.31	C
c _	ARG	Α	4	13.305	-0.261	3.888	1.00	46.70	C
0	ARG	Α	4	14.075	-0.757	3.065	1.00	45.87	<u> </u>
СВ	ARG	Α	4	12.313	-2.184	5.161	1.00	51.04	С
ÇG	ARG	A	4	11.082	-3.026	5.462	1.00	52.54	
CD	ARG	A	4	11.310	-4.014	6.588	1.00	54.18	C
NE	ARG	A	4	12.714	-4.381	6.740	1.00	55.76	N
cz	ARG	Α	4	13.204	-5.089	7.754	1.00	55.81	С
NH1	ARG	A	4	12.388	-5.510	8.707	1.00	56.21	N
NH2	ARG	A	4	14.499	-5.363	7.792	1.00	56.00	N
N	VAL	Ā	5	13.512	0.929	4.436	1.00	44.00	N
CA	VAL	A	5	14.691	1.721	4.082	1.00	41.65	С
c C	VAL	TA A	5	15.765	1.553	5.144	1.00	40.39	C
		Ā	5	15.466	1.605	6.342	1.00	40.29	0
0	VAL	A	5	14.334	3.204	3.904	1.00	41.18	C
CB	VAL		5	15.542	4.022	3.494	1.00	40.93	C
CG1	VAL	A	5	13.215	3.337	2.878	1.00	40.99	Ċ
CG2	VAL	A			1.323	4.687	1.00	38.36	N
<u>N</u>	VAL	<u> </u>	6	16.989	1.134	5.579	1.00	36.46	C
CA	VAL	A	6	18.127	2.069	5.204	1.00	35.96	Ĉ
<u>c</u>	VAL	Α	6	19.270		4.078	1.00	34.89	ō
0	VAL	A	6	19.367	2.549		1.00	36.36	c
CB	VAL	A	6	18.597	-0.331	5.583			
CGI	VAL	A	6	17.633	-1.212	6.377	1.00	35.25	C
CG2	VAL	A	6	18.774	-0.883	4.176	1.00	34.82	
N .	VAL	A	7	20.114	2.404	6.175	1.00	36.29	C
CA	VAL	A	7	21.209	3.359	5.973	1.00	34.89	
С	VAL	A	7	22.508	2.606	5.723	1.00	35.21	C
0	VAL	Α	7	23.107	2.026	6.633	1.00	34.55	10
СВ	VAL	A	7	21.352	4.266	7.205	1.00	34.25	<u>c</u>
CGI	VAL	Α	7	22.435	5.308	6.974	1.00	34.66	C
CG2	VAL	A	7	20.030	4.915	7.568	1.00	32.51	C
N	THR	Α	8	22.947	2.600	4.468	1.00	35.16	N
CA	THR	A	8	24.151	1.902	4.077	1.00	34.77	C
C	THR	Α	8	25.366	2.768	3.841	1.00	34.34	C
ō	THR	A	8	26.312	2.285	3.191	1.00	35.61	0
CB	THR	A	8	23.893	1.120	2.751	1.00	35.46	C
0G1	THR	Α	8	23.765	2.081	1.693	1.00	35.07	0
CG2	THR	A	8	22.666	0.247	2.872	1.00	34.29	С
N	GLY	A	9	25.403	4.010	4.292	1.00	33.53	N
CA	GLY	Ā	9	26.572	4.846	4.008	1.00	32.71	С
			9	26.496	6.173	4.745	1.00	32.55	c
<u>c </u>	GLY	I A	9	25.472	6.847	4.718	1.00	32.58	ō
	GLY	 ^		27.591	6.534	5.404	1.00	31.65	N
	LEU	A	10	27.691	7.753	6.182	1.00	30.79	C
N				1 (/ 09)	1./33	1 0.104	1 1.00	30.77	<u> </u>
N CA	LEU	- A			9 457	5 700	1 00	30 11	10
O N CA C		A	10	28.815 29.837	8.653 8.168	5.700 5.209	1.00	30.11 30.41	0

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00/133	43			801	110				
CC	LEU		110	26.798	6.560	8.320	1.00	31.18	С
CDI	LEU	A	10	27.208	6.161	9.736	1.00	31.32	С
CD2	LEU	A	10	25.488	7.329	8.323	1.00	30.03	С
N	GLY	A	111	28.643	9.963	5.814	1.00	29.43	N
CA	GLY	A	111	29.679	10.911	5.372	1.00	28.90	C
C	GLY	A	11	29.509	12.228	6.120	1.00	28.84	C
ō	GLY	Α	11	28.368	12.646	6.360	1.00	27.25	0
N	MET	A	12	30.616	12.889	6.517	1.00	29.01	N
CA	MET	Α	12	30.376	14.128	7.269	1.00	29.71	C
С	MET	Α	12	31.538	15.041	7.553	1.00	29.99	<u>c</u>
0	MET	Α	12	32.635	14.675	7.959	1.00	30.94	0
СВ	MET	Α	12	29.709	13.689	8.579	1.00	30.44	C
CG	MET	Α	12	30.111	14.370	9.851	1.00	31.28	C
SD	MET	Α	12	29.114	13.787	11.236	1.00	33.04	S
CE	MET	Α	12	29.030	15.291	12.208	1.00	34.14	C N
N	LEU	Α	13	31.255	16.339	7.480	1.00	29.20	C
CA	LEU	Α	13	32.186	17.389	7.856	1.00	28.50	c
С	LEU	A	13	31.557	18.111	9.057	1.00	28.52	0
0	LEU	Α	13	30.355	18.378	9.039	1.00	28.74	c
СВ	LEU	A	13	32.394	18.402	6.750	1.00	28.65	c
CG	LEU	A	13	33.435	18.122	5.680	1.00	28.65	c
CD1	LEU	Α	13	33.357	19.187	4.601	1.00	28.84	c
CD2	LEU	A	13	34.829	18.057	6.293		28.97	N
N	SER	A	14	32.344	18.403	10.070	1.00	28.21	C
CA	SER	Α	14	31.799	19.072	11.255		27.92	C
С	SER	Α	14	32.909	19.787	12.004	1.00	28.19	0
0	SER	A	14	34.097	19.551	11.780	1.00	28.44	c
CB	SER	A	14	31.141	18.044		1.00	29.39	0
OG	SER	A	14	32.052	17.670	13.191	1.00	27.64	N
N	PRO	A	15	32.515	20.647	13.717	1.00	28.13	Ċ
CA	PRO	A	15	33.437	21.428	14.582	1.00	28.10	c
C	PRO	Α	15	34.385	20.619	14.931	1.00	26.91	0
0	PRO	<u> </u>	15	35.465	21.116	14.571	1.00	28.32	Č
СВ	PRO	Α	15	32.536	22.318	13.885	1.00	28.67	c
CG	PRO	A	15	31.220	20.981	13.207	1.00	27.90	c
CD	PRO	Α	15	31.096	19.402	14.975	1.00	28.38	N
N	VAL	A	16	34.019	18.572	15.791	1.00	28.90	С
CA	VAL_		16	35.607	17.534	14.941	1.00	29.97	С
<u>c</u>	VAL	A	16	36.453	16.796	15.472	1.00	31.83	0
0	VAL	A	16	34.157	17.879	16.955	1.00	28.71	С
CB	VAL	A	16	33.534	18.907	17.896	1.00	29.04	С
CGI	VAL	A	16	33.097	16.901	16.489	1.00	28.08	С
CG2	GLY	A	17	35.307	17.450	13.648	1.00	29.27	N
CA	GLY	Ā	17	35.990	16.446	12.835	1.00	30.51	С
C	GLY	A	17	35.651	16.531	11.360	1.00	31.65	C
0	GLY	A	17	34.569	16.998	10.992	1.00	32.81	0
N	ASN	Ā	18	36.559	16.075	10.506	1.00	31.30	N
CA	ASN	A	18	36.365	16.100	9.062	1.00	30.77	C
C	ASN	A	18	35.892	14.767	8.528	1.00	29.51	C
0	ASN	A	18	35.733	14.560	7.319	1.00	29.78	0
СВ	ASN	I A	18	37.678	16.530	8.381	1.00	32.68	С
CG	ASN	A	18	37.873	18.028	8.512	1.00	35.49	С
ODI	ASN	A	18	36.915	18.750	8.815	1.00	37.19	0
ND2	ASN	A	18	39.081	18.526	8.303	1.00	36.58	N
N	THR	Α	19	35.804	13.749	9.379	1.00	27.98	N N
			19	35.289	12.456	8.960	1.00	27.30	<u>c</u>
CA	THR	Α	1 17		1	9.989	1.00	27.68	C
		A	19	34.258	11.975				1 0
CA	THR			34.258 34.070	12.579	11.046	1.00	28.33	0
CA C	THR THR	Α	19		12.579 11.346	11.046 8.760	1.00 1.00	25.95	С
CA C	THR THR THR	A	19 19	34.070	12.579 11.346 10.987	11.046 8.760 10.030	1.00 1.00 1.00	25.95 26.38	C 0
CA C O CB	THR THR THR THR	A A A	19 19 19	34.070 36.328	12.579 11.346	11.046 8.760 10.030 7.792	1.00 1.00 1.00 1.00	25.95 26.38 23.99	C 0 C
CA C O CB OG1	THR THR THR THR THR	A A A	19 19 19 19	34.070 36.328 36.898	12.579 11.346 10.987 11.733 10.909	11.046 8.760 10.030 7.792 9.640	1.00 1.00 1.00 1.00 1.00	25.95 26.38 23.99 27.75	C O C N
CA C O CB OG1 CG2	THR THR THR THR THR THR THR	A A A A	19 19 19 19	34.070 36.328 36.898 37.418	12.579 11.346 10.987 11.733 10.909 10.396	11.046 8.760 10.030 7.792 9.640 10.550	1.00 1.00 1.00 1.00 1.00	25.95 26.38 23.99 27.75 28.58	C O C N C C
CA C O CB OG1 CG2 N	THR THR THR THR THR THR VAL	A A A A A	19 19 19 19 19 19 20	34.070 36.328 36.898 37.418 33.560	12.579 11.346 10.987 11.733 10.909 10.396 9.898	11.046 8.760 10.030 7.792 9.640 10.550 11.840	1.00 1.00 1.00 1.00 1.00 1.00 1.00	25.95 26.38 23.99 27.75 28.58 30.09	C O C C C C
CA C O CB OG1 CG2 N	THR THR THR THR THR THR VAL VAL	A A A A A	19 19 19 19 19 20 20	34.070 36.328 36.898 37.418 33.560 32.537	12.579 11.346 10.987 11.733 10.909 10.396 9.898 10.399	11.046 8.760 10.030 7.792 9.640 10.550 11.840 12.926	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	25.95 26.38 23.99 27.75 28.58 30.09 31.00	C C N C C C O
CA C O CB OG1 CG2 N CA	THR THR THR THR THR THR VAL VAL	A A A A A A	19 19 19 19 19 19 20 20	34.070 36.328 36.898 37.418 33.560 32.537 33.159	12.579 11.346 10.987 11.733 10.909 10.396 9.898	11.046 8.760 10.030 7.792 9.640 10.550 11.840	1.00 1.00 1.00 1.00 1.00 1.00 1.00	25.95 26.38 23.99 27.75 28.58 30.09	C O C C C C

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CG2	VAL	Α	20	30.975	9.838	8.685	1.00	26.96	<u> </u>
N	GLU	A	21	34.033	8.897	11.735	1.00	31.53	C
CA	GLU	A	21	34.669	8.328	12.915	1.00	32.01	
C	GLU	A	21	35.385	9.347	13.770	1.00	32.56	<u>c</u>
0	GLU	A	21	35.216	9.306	15.005	1.00	33.46	0
СВ	GLU	A	21	35.592	7.178	12.500	1.00	32.25	<u>c</u>
CG	GLU	A	21	34.828	6.028	11.845	1.00	32.20	<u>c</u>
	GLU	A	21	33.779	5.403	12.731	1.00	32.65	С
CD		Ā	21	33.806	5.603	13.972	1.00	33.29	0
OEI	GLU		21	32.893	4.693	12.198	1.00	32.86	0
OE2	GLU	A	22	36.124	10.300	13.198	1.00	32.24	N
N	SER	A		36.864	11.236	14.055	1.00	31.95	С
CA	SER	A	22		12.051	14.892	1.00	32.52	С
С	SER	A	22	35.894	12.198	16.107	1.00	33.65	0
0	SER	A	22	36.024	12.135	13.245	1.00	32.45	С
CB	SER	A	22	37.774		12.073	1.00	33.99	0
OG	SER	Α	22	37.164	12.619		1.00	32.30	N
N	THR	Α	23	34.883	12.592	14.222		30.89	i c
CA	THR	Α	23	33.842	13.388	14.853	1.00	30.74	c
С	THR	Ā	23	33.219	12.640	16.017	1.00		0
0	THR	A	23	33.074	13.176	17.109	1.00	30.91	
СВ	THR	Α	23	32.754	13.699	13.800	1.00	30.18	C
OGI	THR	A	23	33.375	14.516	12.799	1.00	30.03	0
CG2	THR	A	23	31.561	14.400	14.404	1.00	29.43	C
N N	TRP	A	24	32.834	11.394	15.770	1.00	30.66	N
CA	TRP	A	24	32.248	10.519	16.775	1.00	31.12	C
C	TRP	A	24	33.139	10.322	17.989	1.00	31.58	C
	TRP	A	24	32.633	10.269	19.117	1.00	32.40	0
0	TRP	A	24	31.898	9.174	16.126	1.00	30.43	С
CB		Ā	24	31.118	8.241	16.993	1.00	29.54	C
CG	TRP	1Â	24	31.407	6.936	17.273	1.00	29.43	С
CDI	TRP		24	29.913	8.537	17.709	1.00	29.07	С
CD2	TRP	A.		30.455	6.403	18.106	1.00	29.04	N
NE1	TRP	Α	24	29.526	7.366	18.388	1.00	28.68	С
CE2	TRP	A	24	29.120	9.680	17.823	1.00	28.43	С
CE3	TRP	A	24		7.304	19.175	1.00	28.30	С
CZ2	TRP	Α	24	28.382	9.609	18.599	1.00	28.58	C
CZ3	TRP	A	24	27.982		19.274	1.00	28.30	С
CH2	TRP	A	24	27.623	8.433	17.816	1.00	32.36	N
N	LYS	Α	25	34.456	10.210		1.00	32.47	C
CA	LYS	A	25	35.365	10.069	18.950	1.00	31.77	c
С	LYS	Α	25	35.384	11.367	19.753		32.00	0
0	LYS	Α	25	35.161	11.344	20.966	1.00		c
CB	LYS	Α	25	36.786	9.706	18.533	1.00	34.20	c
CG	LYS	Α	25	36.856	8.568	17.532	1.00	36.79	
CD	LYS	A	25	38.162	7.795	17.623	1.00	38.74	<u>C</u>
CE	LYS	Α	25	38.112	6.579	16.685	1.00	39.99	C
NZ	LYS	A	25	39.171	5.589	17.053	1.00	40.83	N
N	ALA	A	26	35.488	12.495	19.055	1.00	30.32	N
CA	ALA	A	26	35.467	13.791	19.718	1.00	29.97	C
	ALA	A	26	34.201	14.001	20.527	1.00	30.40	С
F -	ALA	Â	26	34.274	14.526	21.654	1.00	31.66	0
0		A	26	35.654	14.915	18.714	1.00	30.12	C
CB	ALA		27	33.043	13.626	19.995	1.00	30.16	N
N	LEU	1 A -	27	31,798	13.797	20.745	1.00	30.85	С
CA	LEU	1 <u>A</u>		31.799	12.936	22.006	1.00	31.50	С
C	LEU	A	27		13.405	23.098	1.00	31.92	0
0	LEU	<u> </u>	27	31.470	13.468	19.896	1.00	30.80	C
1 00	LEU	A	27	30.585		18.673	1.00	30.36	c
CB				30.244	14.307	18.270	1.00	30.28	C
CG	LEU	A	27	20 -05				1 20.20	
	LEU LEU	A	27	28.797	14.053			30.08	ור
CG				30.456	15.790	18.910	1.00	30.98	C
CD1 CD2	LEU	Α	27		15.790 11.666	18.910 21.869	1.00 1.00	31.46	N
CG CD1 CD2 N	LEU LEU	A	27 27	30.456	15.790	18.910 21.869 23.013	1.00 1.00 1.00	31.46 31.67	N C
CG CD1 CD2 N CA	LEU LEU LEU	A A A	27 27 28	30.456 32.181	15.790 11.666	18.910 21.869 23.013 24.054	1.00 1.00 1.00 1.00	31.46 31.67 32.22	N C C
CG CD1 CD2 N CA C	LEU LEU LEU LEU LEU	A A A A	27 27 28 28 28 28	30.456 32.181 32.202	15.790 11.666 10.758	18.910 21.869 23.013	1.00 1.00 1.00	31.46 31.67 32.22 33.37	C C O
CG CD1 CD2 N CA C	LEU LEU LEU LEU LEU LEU	A A A A A	27 27 28 28 28 28 28	30.456 32.181 32.202 33.223	15.790 11.666 10.758 11.167	18.910 21.869 23.013 24.054	1.00 1.00 1.00 1.00	31.46 31.67 32.22 33.37 30.95	N C C O
CG CD1 CD2 N CA C O	LEU LEU LEU LEU LEU LEU LEU LEU	A A A A A	27 27 28 28 28 28 28 28 28	30.456 32.181 32.202 33.223 33.013 32.424	15.790 11.666 10.758 11.167 10.970	18.910 21.869 23.013 24.054 25.258	1.00 1.00 1.00 1.00 1.00	31.46 31.67 32.22 33.37	N C C O C
CG CD1 CD2 N CA C O CB	LEU LEU LEU LEU LEU LEU LEU LEU LEU	A A A A A A	27 27 28 28 28 28 28 28 28 28	30.456 32.181 32.202 33.223 33.013 32.424 31.228	15.790 11.666 10.758 11.167 10.970 9.314 8.660	18.910 21.869 23.013 24.054 25.258 22.544	1.00 1.00 1.00 1.00 1.00 1.00	31.46 31.67 32.22 33.37 30.95	N C C O
CG CD1 CD2 N CA C O CB CG CD1	LEU LEU LEU LEU LEU LEU LEU LEU LEU LEU	A A A A A A A	27 27 28 28 28 28 28 28 28 28 28	30.456 32.181 32.202 33.223 33.013 32.424 31.228 31.560	15.790 11.666 10.758 11.167 10.970 9.314 8.660 7.271	18.910 21.869 23.013 24.054 25.258 22.544 21.830 21.337	1.00 1.00 1.00 1.00 1.00 1.00 1.00	31.46 31.67 32.22 33.37 30.95 30.19	N C C O C
CG CD1 CD2 N CA C O CB CG	LEU LEU LEU LEU LEU LEU LEU LEU LEU	A A A A A A	27 27 28 28 28 28 28 28 28 28	30.456 32.181 32.202 33.223 33.013 32.424 31.228	15.790 11.666 10.758 11.167 10.970 9.314 8.660	18.910 21.869 23.013 24.054 25.258 22.544 21.830	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	31.46 31.67 32.22 33.37 30.95 30.19 28.60	N C C O C C

				52	1110				
CA	ALA	A	29	35.302	12.346	24.565	1.00	31.97	С
C	ALA	A	29	34.965	13.745	25.063	1.00	32.74	C
0	ALA	A	29	35.830	14.417	25.632	1.00	33.76	0
СВ	ALA	A	29	36.675	12.342	23.893	1.00	30.85	С
N	GLY	A	30	33.761	14.238	24.824	1.00	32.92	N
CA	GLY	Α	30	33.297	15.529	25.232	1.00	33.16	C
С	GLY	A	30	34.121	16.708	24.757	1.00	34.03	C
0	GLY	A	30	34.194	17.728	25.454	1.00	33.69	0
N	GLN	Α	31	34.712	16.630	23.571	1.00	35.19	N
CA	GLN	Α	31	35.478	17.738	23.014	1.00	36.06	С
С	GLN	Α	31	34.564	18.823	22.454	1.00	35.59	LC
0	GLN	Α	31	33.447	18.518	22.014	1.00	36.40	0
CB	GLN	Α	31	36.414	17.217	21.915	1.00	37.41	C
CG	GLN	Α	31	37.802	16.866	22.389	1.00	39.45	C
CD	GLN	Α	31	38.613	16.003	21.451	1.00	40.61	C
OEI	GLN	A	31	38.690	16.219	20.241	1.00	41.07	0
NE2	GLN	A	31	39.278	14.977	21.999	1.00	41.32	N
N	SER	Α	32	35.018	20.075	22.452	1.00	33.36	C
CA	SER	A	32	34.222	21.154	21.881	1.00	32.18	+
C	SER	Α	32	34.851	21.584	20.549	1.00	32.02	C
0	SER	A	32	36.060	21.425	20.377	1.00	32.16	C
СВ	SER	A	32	34.092	22.344	22.816	1.00	31.37 29.60	0
OG	SER	A	32	33.391	23.419	22.212	1.00	30.46	N
N	GLY	A	33	34.043	22.121	19.642	1.00	29.56	c
CA	GLY	A	33	34.570	22.558	18.354	1.00	28.85	c
С	GLY	A	33	34.467	24.072	18.211	1.00	28.54	0
0	GLY	A	33	34.791	24.628	19.253	1.00	28.51	N
N	ILE	A	34	33.969 33.770	26.156	19.246	1.00	29.03	С
CA	ILE	A	34	35.088	26.919	19.316	1.00	31.01	Ċ
C	ILE	A	34	36.044	26.565	20.003	1.00	31.09	0
0	ILE	A	34	32.828	26.605	20.374	1.00	27.97	С
CB	ILE	1.	34	31.627	25.675	20.480	1.00	27.70	С
CGI	ILE	A	34	32.375	28.046	20.158	1.00	27.56	С
CG2 CD1	ILE	1 A	34	30.926	25.332	19.193	1.00	27.39	С
N	SER	A	35	35.138	28.018	18.554	1.00	32.43	N
CA	SER	A	35	36.346	28.809	18.448	1.00	33.74	С
c	SER	A	35	36.080	30.239	18.016	1.00	33.57	С
0	SER	A	35	34.999	30.610	17.564	1.00	33.76	0
СВ	SER	A	35	37.304	28.154	17.427	1.00	34.84	С
OG	SER	A	35	38.306	27.456	18.170	1.00	37.72	0
N	LEU	A	36	37.123	31.056	18.147	1.00	33.30	N
CA	LEU	Α	36	37.005	32.455	17.748	1.00	32.80	C
С	LEU	A	36	37.052	32.549	16.228	1.00	32.03	C
0	LEU	Ā	36	37.848	31.904	15.555	1.00	30.53	0
СВ	LEU	A	36	38.081	33.316	18.400	1.00	33.47	C
CG	LEU	Α	36	37.978	33.525	19.919	1.00	33.68	C
CD1	LEU	Α	36	39.228	34.215	20.435	1.00	34.01	C
CD2	LEU	Α	36	36.741	34.337	20.280	1.00	33.48	C
N	ILE	Α	37	36.144	33.366	15.713	1.00	32.62	N
CA	ILE	Α	37	36.052	33.596	14.266	1.00	32.27	<u> C</u>
С	ILE	Α	37	37.234	34.456	13.866	1.00	33.50	C
0	ILE	Α	37	37.536	35.417	14.575	1.00	34.14	10
CB	ILE	Α	37	34.730	34.316	13.961	1.00	31.61	C
CGI	ILE	A	37	33.573	33.312	13.932	1.00	30.43	C
CG2	ILE	Α	37	34.812	35.106	12.666	1.00	29.18	c
CDI	ILE	Α	37	32.227	33.902	14.284	1.00	36.45	N
N	ASP	_ A	38	37.947	34.146	12.798	1.00	38.42	C
CA	ASP	A	38	39.076	35.005	12.421	1.00	38.45	c
С	ASP	Α	38	39.047	35.372	10.951		38.84	6
0	ASP	Α	38	39.881	36.176	10.520	1.00	40.40	 c
	ASP	Α	38	40.394	34.326	12.797	1.00	42.60	c
CB		l A	38	40.402	32.903	12.257	1.00		18
CG	ASP								
CG OD1	ASP	A	38	40.644	32.740	11.043	1.00	43.69	
CG OD1 OD2	ASP ASP	A	38	40.106	31.982	13.045	1.00	44.53	0
CG OD1 OD2 N	ASP ASP HIS	A A A	38 39	40.106 38.003	31.982 34.975	13.045 10.218	1.00 1.00	44.53 38.59	O N
CG OD1 OD2	ASP ASP	A	38	40.106	31.982	13.045	1.00	44.53	0

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0	HIS	A	39	37.094	36.980	7.321	1.00	38.38	10
CB	HIS	Α	39	37.332	34.130	7.991	1.00	38.62	C
CG	HIS	A	39	36.023	33.615	8.480	1.00	39.30	С
ND1 CD2	HIS	- A	39	35.901	32.834	9.610	1.00	40.20	N
CEI	HIS	A	39	34.768	33.780	7.997	1.00	39.04	С
NE2	HIS	$\frac{1}{A}$	39	34.625 33.921	32.533	9.798	1.00	39.85	С
N	PHE	A	40	36.775	33.101 37.315	9.496	1.00	39.44	N
CA	PHE	A	40	36.168	38.633	9.305	1.00	38.47	N
С	PHE	A	40	36.307	39.420	10.609	1.00	38.57	$\frac{c}{c}$
0	PHE	Α	40	36.427	38.804	11.671	1.00	39.71	6
CB	PHE	A	40	34.758	38.544	8.806	1.00	37.77	Č
CG	PHE	A	40	33.645	38.078	9.681	1.00	36.91	c
CD1 CD2	PHE	_ A	40	33.136	36.796	9.553	1.00	36.30	С
CEI	PHE	A	40	33.023	38.931	10.582	1.00	36.50	С
CE2	PHE	A	40	32.078	36.365	10.325	1.00	36.32	С
CZ	PHE	A	40	31.968	38.506 37.215	11.357	1.00	36.47	C
N	ASP	Ā	41	36.441	40.735	11.240	1.00	36.21	<u> C</u>
CA	ASP	A	41	36.619	41.528	11.749	1.00	40.59 42.02	C
С	ASP	Α	41	35.370	41.430	12.610	1.00	41.11	c
0	ASP	Α	41	34.291	41.785	12.136	1.00	41.74	0
CB	ASP	A	41	36.952	42.972	11.390	1.00	43.80	č
CG OD1	ASP	A	41	37.737	43.667	12.486	1.00	45.45	C
OD2	ASP ASP	- A	41	38.750	43.090	12.935	1.00	46.51	0
N N	THR	A	41	37.345	44.779	12.895	1.00	46.80	0
CA	THR	Ā	42	35.478	40.951	13.839	1.00	40.44	N N
С	THR	A	42	34.224	41.828	15.807	1.00	40.50	C
0	THR	Α	42	33.347	41.734	16.675	1.00	40.76	C
CB	THR	Α	42	34.295	39.379	15.352	1.00	40.02	 c
OG1	THR	A	42	35.528	39.130	16.028	1.00	39.27	ō
CG2	THR	A	42	34.100	38.290	14.308	1.00	39.67	C
N CA	SER SER	- A	43	35.051	42.859	15.744	1.00	41.65	N
C	SER	A	43	35.114	43.915	16.740	1.00	41.97	С
0	SER	Ā	43	33.764	44.533	17.050	1.00	41.66	C
СВ	SER	A	43	36.093	45.012	18.230	1.00	42.75	0
OG	SER	A	43	35.789	45.413	14.971	1.00	42.49	C 0
N	ALA	Α	44	32.958	44.828	16.034	1.00	40.22	N
CA	ALA	Α	44	31.642	45.406	16.288	1.00	39.07	c
<u>c</u>	ALA	A	44	30.582	44.357	16.589	1.00	38.38	C
O CB	ALA	A	44	29.423	44.734	16.810	1.00	39.11	0
N	ALA TYR	A	44	31.208	46.211	15.064	1.00	39.04	С
CA	TYR	A	45	30.911 29.924	43.070	16.572	1.00	36.80	N
C	TYR	A	45	29.768	42.025	16.761	1.00	35.25	С
0	TYR	A	45	30.735	41.526	18.197	1.00	34.29 35.60	0
CB	TYR	Α	45	30.276	40.829	15.864	1.00	35.92	c
CG	TYR	A	45	30.039	41.091	14.391	1.00	36.02	c
CD1	TYR	Α	45	30.930	41.877	13.664	1.00	36.12	c
CD2	TYR	A	45	28.944	40.551	13.727	1.00	35.78	c
CE1	TYR	A	45	30.721	42.140	12.321	1.00	35.54	С
CZ	TYR TYR	A	45	28.735	40.799	12.380	1.00	35.49	С
OH	TYR	A	45	29.621	41.592	11.692	1.00	35.82	С
N	ALA	A	46	28.556	41.833	10.351	1.00	37.58	0
CA	ALA	A	46	28.245	40.750	19.929	1.00	32.36	C
c	ALA	A	46	28.587	39.287	20.162	1.00	31.00	C
)	ALA	Α	46	28.536	38.763	21.281	1.00	30.09	0
СВ	ALA	Α	46	26.769	41.000	20.237	1.00	29.78	c
٧	THR	Α	47	28.832	38.560	19.098	1.00	29.39	N
<u> </u>	THR	Α	47	29.274	37.171	19.162	1.00	29.14	C
	THR	A	47	30.518	37.099	18.273	1.00	29.84	C
B	THR	Α	47	30.500	37.554	17.120	1.00	29.99	0
)GI	THR	A	47	28.209	36.160	18.763	1.00	28.64	C
:G2	THR	A	47	27.018 28.730	36.347	19.549	1.00	26.79	0
				40.730	34.739	18.992	1.00	27.92	C 1

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LN.	LYS	TA	48	31.607	36.614	18.844	1.00	30.40	N
CA	LYS	A	48	32.866	36.561	18.111	1.00	31.75	C
C	LYS	A	48	33.337	35.135	17.911	1.00	31.94	С
ō	LYS	A	48	34.499	34.911	17.538	1.00	33.23	0
СВ	LYS	Α	48	33.936	37.388	18.833	1.00	33.40	С
CG	LYS	A	48	33.425	38.325	19.913	1.00	34.99	С
CD	LYS	Α	48	34.435	39.384	20.296	1.00	36.14	C
CE	LYS	Α	48	34.249	40.674	19.509	1.00	36.82	С
NZ	LYS	Α	48	33.140	41.508	20.060	1.00	37.15	N
N	PHE	Α	49	32.433	34.182	18.140	1.00	31.02	N
CA	PHE	A	49	32.807	32.777	18.010	1.00	30.48	C
С	PHE	A	49	31.747	31.913	17.344	1.00	30.81	C
0	PHE	Α	49	30.561	32.225	17.292	1.00	30.88	c
СВ	PHE	A	49	33.110	32.226	19.413	1.00	28.73	c
CG	PHE	A	49	31.914	32.281 31.225	20.323	1.00	28.37	C
CDI	PHE	A	49	31.032	33.400	21.114	1.00	28.99	c
CD2 CE1	PHE	A	49	29.947	31.281	21.267	1.00	29.19	Ċ
CE2	PHE	A	49	30.593	33.466	21.957	1.00	28.39	Ċ
CZ	PHE	A	49	29.720	32.401	22.041	1.00	28.17	C
N	ALA	Â	50	32.193	30.761	16.845	1.00	31.01	N
CA	ALA	A	50	31.329	29.803	16.187	1.00	30.91	С
c	ALA	A	50	31.951	28.410	16.154	1.00	31.13	С
0	ALA	Α	50	33.063	28.170	16.607	1.00	31.32	0
СВ	ALA	A	50	31.048	30.264	14.758	1.00	30.31	C
N	GLY	Α	51	31.191	27.470	15.612	1.00	31.33	N
CA	GLY	Α	51	31.707	26.114	15.400	1.00	31.92	C
С	GLY	A	51	32.119	26.098	13.905	1.00	32.48	C
0	GLY	Α	51	31.249	26.054	13.042	1.00	31.41	0
N	LEU	A	52	33.409	26.221	13.650	1.00	33.16	C
CA	LEU	A	52	33.924	26.250	12.289	1.00	33.73 34.33	č
<u>c</u>	LEU	A	52	34.613 35.176	24.952	12.710	1.00	34.72	0
CB	LEU	A	52	34.888	27,424	12.127	1.00	33.94	c
CG	LEU	A	52	34.364	28.806	12.525	1.00	34.26	c
CD1	LEU	Â	52	35.497	29.657	13.078	1.00	33.88	c
CD2	LEU	A	52	33.698	29.515	11.354	1.00	33.97	С
N	VAL	A	53	34.539	24.625	10.602	1.00	35.38	N
CA	VAL	A	53	35.180	23.418	10.060	1.00	36.67	Č
C	VAL	A	53	36.657	23.748	9.883	1.00	39.49	С
0	VAL	Α	53	36.983	24.713	9.185	1.00	39.50	0
СВ	VAL	A	53	34.492	22.991	8.765	1.00	35.64	C
CGI	VAL	Α	53	35.288	21.993	7.943	1.00	34.33	C
CG2	VAL	Α	53	33.113	22.403	9.098	1.00	34.62	C
N	LYS	A	54	37.535	23.040	10.588	1.00	42.77	C
CA	LYS	A	54	38.955	23.337	10.595	1.00	48.60	c
0	LYS	A	54	39.807 39.695	22.528	9.634	1.00	48.51	0
CB	LYS	A	54	39.693	23.184	12.031	1.00	46.00	c
CG	LYS	A	54	38.765	24.095	13.013	1.00	46.36	C
CD	LYS	A	54	38.735	23.509	14.408	1.00	46.28	C
CE	LYS	A	54	37.330	23.395	14.954	1.00	46.49	C
NZ	LYS	A	54	36.792	24.669	15.488	1.00	46.54	N
N	ASP	A	55	40.730	23.244	8.991	1.00	52.11	N
CA	ASP	A	55	41.654	22.694	8.012	1.00	55.06	С
С	ASP	Α	55	40.927	21.790	7.030	1.00	56.01	С
0	ASP	Α	55	41.110	20.579	6.985	1.00	56.42	0
СВ	ASP	A	55	42.813	21.976	8.707	1.00	56.66	C
CG	ASP	A	55	43.718	22.953	9.441	1.00	58.45	C
ODI	ASP	A	55	44.364	23.795	8.777	1.00	59.28	0
OD2	ASP	A	55	43.773	22.897	10.692	1.00	59.47	0
N	PHE	A	56	40.060	22.409	6.230	1.00	57.29	N
CA	PHE	A	56	39.245	21.657	5.276	1.00	58.33	C
C	PHE	A	56	39.919	21.613	3.915	1.00	59.60	0
0	PHE	A	56	40.252	22.646	5.201	1.00	57.68	c
CB	PHE	A	56	37.845 37.061	22.257	3.953	1.00	56.82	c
CDI	PHE	A	56	36.509	20.746	3.707	1.00	56.49	C
LCD1	FILE	Α	1 20	1 30.507	, 2040	,			

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CD2	PHE	A	56	36.868	22.997	3.019	1.00	56.58	<u>c</u>
CD2	PHE	A	56	35.791	20.514	2.548	1.00	56.82	C
CEI		A	56	36.143	22.774	1.868	1.00	56.36	С
CE2	PHE		56	35.602	21,526	1.630	1.00	56.45	C
CZ	PHE	A	57	40.137	20.409	3.416	1.00	61.48	N
N	ASN	Α		40.716	20,206	2.094	1.00	63.34	С
CA	ASN	A	57		19.660	1.162	1.00	64.04	С
C	ASN	Α	57	39.632		1.625	1.00	64.29	0
0	ASN	A	57	38.720	18.963		1.00	64.21	C
СВ	ASN	Α	57	41.890	19.230	2.145		65.21	C
CG	ASN	Α	57	43.104	19.746	1.398	1.00		0
ODI	ASN	Α	57	43.551	20.872	1.641	1.00	65.56	
ND2	ASN	Α	57	43.643	18.932	0.497	1.00	65.37	N
N	CYS	A	58	39.697	20.028	-0.111	1.00	64.22	N
	CYS	A	58	38.699	19.538	-1.061	1.00	64.43	С
CA			58	39.324	19.389	-2.440	1.00	64.92	C
<u>c</u>	CYS	A -	58	38.766	18.709	-3.292	1.00	64.47	0
0	CYS	Α			20.414	-1.089	1.00	64.20	С
CB	CYS	A	58	37.460		-1.749	1.00	63.44	S
SG	CYS	A	58	37.608	22.077		1.00	66.16	N
N	GLU	A	59	40.546	19.874	-2.582	1.00	67.17	C
CA	GLU	Α	59	41.317	19.859	-3.808			c
С	GLU	Α	59	41.375	18.503	-4.492	1.00	67.32	6
0	GLU	Α	59	41.243	18.412	-5.723	1.00	67.05	
СВ	GLU	A	59	42.735	20.381	-3.532	1.00	67.79	C
	GLU	A	59	43.232	21.362	-4.580	1.00	69.05	C
CD	GLU	Â	59	43.519	22.742	-4.027	1.00	69.60	C
		Ā	59	44.508	23.377	-4.462	1.00	70.20	0
OEI	GLU		59	42.755	23.220	-3.164	1.00	69.62	0
OE2	GLU	A		41.473	17.426	-3.729	1.00	67.11	N
N	ASP	A	60		16.077	-4.254	1.00	67.51	С
CA	ASP	A	60	41.451		-4.909	1.00	67.42	C
С	ASP	Α	60	40.105	15.759		1.00	67.17	0
0	ASP	Α	60	40.041	15.013	-5.885	1.00	68.43	c
СВ	ASP	A	60	41.749	15.045	-3.175		69.14	c
CG	ASP	Α	60	42.080	15.567	-1.798	1.00		0
ODI	ASP	A	60	42.745	16.618	-1.651	1.00	69.37	
OD2	ASP	A	60	41.707	14.871	-0.819	1.00	69.27	10
N	ILE	Α	61	39.022	16.292	-4.357	1.00	67.60	N N
CA	ILE	A	61	37.674	16.071	-4.832	1.00	67.38	C
	ILE	A	61	37.180	17.149	-5.787	1.00	67.54	C
<u>c</u>			61	36.497	16.848	-6.770	1.00	67.93	0
0	ILE	A	61	36.667	15.988	-3.664	1.00	67.40	C
CB	ILE	A		37.311	15.408	-2.413	1.00	67.80	C
CGI	ILE	Α	61		15.180	-4.083	1.00	67.34	C
CG2	ILE	A	61	35.449		-2.513	1.00	68.03	C
CDI	ILE	Α	61	37.777	13.973		1.00	67.52	N
N	ILE	Α	62	37.391	18.412	-5.440		67.98	T C
CA	ILE	Α	62	36.982	19.529	-6.274	1.00	68.48	c
C	ILE	A	62	38.205	20.343	-6.706	1.00		0
l ö	ILE	A	62	38.999	20.776	-5.872	1.00	68.15	
CB	ILE	A	62	35.993	20.477	-5.575	1.00	68.14	C
CG1	ILE	A	62	34.855	19.723	-4.881	1.00	67.67	C
	ILE	A	62	35.412	21.476	-6.575	1.00	67.87	C
CG2	ILE	$\frac{1}{A}$	62	34.527	20.263	-3.510	1.00	67.28	C
CD1			63	38.310	20.600	-8.002	1.00	69.51	N
N_	SER	A		39.417	21.370	-8.554	1.00	70.54	C
CA	SER	A	63		22.856	-8.265	1.00	70.89	С
С	SER	A	63	39.290		-8.181	1.00	71.31	0
0	SER	_ A	63	38.176	23.377		1.00	71.01	c
CB	SER	Α	63	39.443	21.182	-10.081		71.28	0
OG	SER	A	63	38.191	21.601	-10.622	1.00	71.13	N
N	ARG	A	64	40.407	23.574	-8.237	1.00		c
CA	ARG	A	64	40.418	25.011	-7.990	1.00	70.88	_
C	ARG	A	64	39.638	25.800	-9.027	1.00	69.35	<u> c </u>
	ARG	A	64	39.069	26.861	-8.737	1.00	69.23	0
0			64	41.859	25.524	-7.905	1.00	72.62	
CB	ARG	 ^	64	42.772	24.624	-7.080	1.00	74.72	С
CG	ARG	A			23.964	-7.969	1.00	76.13	C
CD	ARG	Α_	64	43.816	22.911	-7.262	1.00	77.32	N
NE	ARG	A	64	44.540		-7.436	1.00	78.17	C
CZ	ARG	A	64	45.834	22.661			78.63	N
NHI	ARG	Α	64	46.546	23,383	-8.294	1.00		N
NH2	ARG	A	64	46.395	21.679	-6.743	1.00	78.58	1.17

				30	1110				
N	LYS	Α	65	39.566	25.310	-10.259	1.00	67.53	N
CA	LYS	A	65	38.788	25.972	-11.298	1.00	65.69	С
С	LYS	A	65	37.295	25.760	-11.038	1.00	63.81	C
0	LYS	A	65	36.479	26.601	-11.405	1.00	63.43	0
СВ	LYS	A	65	39.167	25.454	-12.682	1.00	66.44	Č
CG	LYS	A	65	40.622	25.665	-13.056	1.00	67.23	c
CD	LYS	A	65	40.858	27.006	-13.722	1.00	67.48	C
İ						-15.022	1.00	+	c
CE	LYS	A	65	41.632	26.857			67.88	
NZ	LYS	A	65	41.367	27.998	-15.950	1.00	67.80	N
N	GLU	Α	66	36.945	24.645	-10.402	1.00	61.40	N
CA	GLU	I A	66	35.560	24.328	-10.097	1.00	59.42	С
С	GLU	I A	66	35.121	24.864	-8.741	1.00	57.68	C
0	GLU	A	66	33.927	25.012	-8.469	1.00	57.07	0
СВ	GLU	ľΑ	66	35.341	22.812	-10.174	1.00	59.70	С
CG	GLU	A	66	35.295	22.297	-11.605	1.00	60.10	С
CD	GLU	Α	66	33.929	22.447	-12.245	1.00	60.14	С
OE1	GLU	A	66	33.820	23.096	-13.304	1.00	59.46	ō
OE2	GLU	A	66	32.952	21.907	-11.682	1.00	60.54	ō
	+	A	67	36.076	25.201	-7.893	1.00	55.83	N
N	GLN				+				
CA	GLN	A	67	35.842	25.754	-6.574	1.00	54.78	C
C	GLN	A	67	35.173	27.125	-6.634	1.00	53.83	С
0	GLN	A	67	34.343	27.470	-5.803	1.00	53.09	0
СВ	GLN	A	67	37.175	25.908	-5.842	1.00	55.38	С
CG	GLN	A	67	37.455	24.916	-4.738	1.00	56.07	С
CD	GLN	Α	67	38.776	25.233	-4.052	1.00	56.50	С
OEI	GLN	A	67	38.931	26.290	-3.447	1.00	56.45	0
NE2	GLN	A	67	39.720	24.308	-4.163	1.00	57.61	N
N	ARG	Α	68	35.525	27.914	-7.632	1.00	53.40	N
CA	ARG	Α	68	35.065	29.247	-7.896	1.00	52.43	C
C	ARG	A	68	33.615	29.368	-8.330	1.00	49.54	c
0	ARG	A	68	33.100	30.491	-8.400	1.00	49.30	0
СВ	ARG	Â	68	35.932	29.890	-9.011	1.00	55.50	C
								, 	c
CG	ARG	A	68	36.265	31.348	-8.741	1.00	58.96	
CD	ARG	Α	68	36.100	32.210	-9.982	1.00	61.92	С
NE	ARG	Α	68	35.231	33.368	-9.770	1.00	64.11	N
CZ	ARG	A	68	35.580	34.490	-9.149	1.00	64.77	С
NHI	ARG		68	36.802	34.633	-8.651	1.00	65.05	N
NH2	ARG	Α	68	34.710	35.487	-9.015	1.00	65.20	N
N	LYS	Α	69	32.948	28.275	-8.649	1.00	45.91	N
CA	LYS	Α	69	31.545	28.298	-9.044	1.00	43.05	С
С	LYS	Α	69	30.648	27.848	-7.896	1.00	40.79	С
0	LYS	Α	69	29.514	27.405	-8.079	1.00	40.97	0
СВ	LYS	A	69	31.343	27.323	-10.216	1.00	42.96	С
CG	LYS	A	69	32.404	27.462	-11.299	1.00	43.11	c
CD	LYS	Ā	69	32.480	26.204	-12.151	1.00	42.58	c
CE	LYS	Ā	69	31.895	26.456	-13.532	1.00	42.02	C
					25.970	-14.605	1.00	41.64	N
NZ	LYS	A	69	32.812	27.869	-6.687	1.00	37.50	N
N CA	MET	A	70	31.191					C
CA	MET	A	70	30.633	27.175	-5.555	1.00	34.98	-
С	MET	Α	70	30.758	27.902	-4.223	1.00	32.38	C
	MET	Α	70	31.871	28.210	-3.798	1.00	32.03	0
CB	MET	A	70	31.425	25.864	-5.366	1.00	35.08	c
CG	MET	A	70	30.888	24.645	-6.066	1.00	35.01	С
SD	MET	Α	70	31.957	23.217	-5.694	1.00	35.60	S
CE	MET	Α	70	31.632	22.233	-7.165	1.00	35.07	С
N	ASP	Α	71	29.633	28.071	-3.536	1.00	29.01	N
CA	ASP	Α	71	29.750	28.647	-2.186	1.00	27.17	С
С	ASP	Α	71	30.244	27.526	-1.274	1.00	26.77	С
ō	ASP	A	71	30.018	26.329	-1.542	1.00	26.15	o
СВ	ASP	A	71	28.432	29.242	-1.766	1.00	26.38	c
			71	28.364	29.693	-0.330	1.00	26.16	c
CC	ASP	A							
CG	ACC		71	28.165	28.817	0.549	1.00	26.10	0
ODI	ASP	Α							0 1
ODI OD2	ASP	Α	71	28.481	30.909	-0.081	1.00	25.93	
ODI OD2 N	ASP ALA	A A	71 72	30.909	27.882	-0.180	1.00	25.21	N
ODI OD2 N CA	ASP ALA ALA	Α	71 72 72	30.909 31.419	27.882 26.919	-0.180 0.780	1.00 1.00	25.21 23.86	N C
ODI OD2 N	ASP ALA	A A	71 72 72 72	30.909	27.882	-0.180	1.00	25.21	N
ODI OD2 N CA	ASP ALA ALA	A A A	71 72 72	30.909 31.419	27.882 26.919	-0.180 0.780	1.00 1.00	25.21 23.86	N C
ODI OD2 N CA	ASP ALA ALA ALA	A A A	71 72 72 72	30.909 31.419 30.381	27.882 26.919 25.913	-0.180 0.780 1.237	1.00 1.00 1.00	25.21 23.86 23.27	N C C

				<i>\(\)</i>	, ,,,			, , , , , , , , , , , , , , , , , , ,	
N	PHE	A	73	29.111	26.282	1.386	1.00	22.52	N
CA	PHE	A	73	28.109	25.289	1.788	1.00	22.41	C
		Ā	73	28.012	24.159	0.777	1.00	23.21	C
<u>c</u>	PHE		73	27.924	22.992	1.186	1.00	24.39	0
0	PHE	Α			25,940	2.069	1.00	21.58	С
CB	PHE	Α	73	26.774				20.70	C
CG	PHE	Α	73	25.743	25.898	0.995	1.00		
CDI	PHE	Α	73	24.736	24.944	1.023	1.00	20.86	<u>c</u>
	PHE	Α	73	25.785	26.798	-0.053	1.00	20.41	С
CD2				23.781	24.891	0.026	1.00	21.03	С
CEI	PHE	A	73			-1.046	1.00	20.99	С
CE2	PHE	Α	73	24.823	26.765	,		20.90	c
CZ	PHE	Α	73	23.822	25.810	-1.008	1.00		
N	ILE	Α	74	28.066	24.445	-0.515	1.00	23.43	N
		A	74	28.063	23.404	-1.537	1.00	24.79	C
CA	ILE				22.570	-1.443	1.00	25.35	С
<u>C</u>	ILE	Α	74	29.339			1.00	25.40	0
0	ILE	Α	74	29.338	21.345	-1.565			
СВ	ILE	A	74	27.946	24.049	-2.933	1.00	25.11	С
	ILE	Α	74	26.533	24.620	-3.124	1.00	23.99	C
CG1		+	74	28.280	23.077	-4.053	1.00	24.54	C
CG2_	ILE	A			25.656	-4.221	1.00	23.46	С
CD1	ILE	<u> </u>	74	26.463				25.23	N
N	GLN	Α	75	30.468	23.238	-1.217	1.00		
CA.	GLN	A	75	31.747	22.553	-1.090	1.00	26.02	C
	GLN	A	75	31.699	21.484	-0.008	1.00	25.95	C
<u>c</u>		-	75	32.145	20.358	-0.216	1.00	26.78	0
0	GLN	A			23.546	-0.806	1.00	26.42	С
СВ	GLN	A	75	32.871				28.06	c
CG	GLN	Α	75	33.332	24.282	-2.062	1.00		
CD	GLN	Α	75	34.302	25.389	-1.689	1.00	29.61	C
		A	75	35.078	25.201	-0.737	1.00	31.73	0
OEI	GLN				26.508	-2.390	1.00	28.55	N
NE2	GLN	A	75	34.262			1.00	25.75	N
N	TYR	A	76	31.183	21.843	1.155			c
CA	TYR	A	76	31.012	20.945	2.284	1.00	24.59	
	TYR	A	76	30.091	19.783	1.905	1.00	25.40	
<u>c</u>				30.453	18.620	2.090	1.00	26.52	0
0	TYR	Α	76		21.710	3.456	1.00	23.32	С
CB	TYR	A	76	30.418				23.16	C
CG	TYR	A	76	31.291	22.727	4.146	1.00		
CD1	TYR	A	76	30.789	23.430	5.249	1.00	22.41	C
	TYR	A	76	32.593	23.002	3.755	1.00	22.62	С
CD2			76	31.549	24.362	5.915	1.00	22.33	C
CEI	TYR	Α				4.395	1.00	21.92	C
CE2	TYR_	ΙΑ	76	33.366	23.944				c
cz	TYR	Α	76	32.842	24.622	5.477	1.00	23.20	
ОН	TYR	A	76	33.608	25.548	6.155	1.00	22.62	0
		A	77	28.927	20.091	1.335	1.00	24.29	N
N	GLY				19.090	0.948	1.00	23.68	C
CA	GLY	A	77	27.960			1.00	24.17	С
С	GLY	Α	77	28.532	18.017	0.040			0
0	GLY	Α	77	28.286	16.831	0.258	1.00	24.09	
	ILE	A	78	29.208	18.420	-1.031	1.00	24.69	N
N			78	29.852	17.512	-1.963	1.00	24.28	С
CA	ILE	A				-1.263	1.00	24.34	С
С	ILE	A	78	30.854	16.603			24.29	ō
0	ILE	Α	78	30.693	15.382	-1.276	1.00		
СВ	ILE	Α	78	30.586	18.300	-3.074	1.00	24.14	C
		A	78	29.568	19.116	-3.859	1.00	24.40	C
CGI	ILE				17.347	-3.975	1.00	24.03	С
CG2	ILE	A	78	31.358			1.00	24.19	Ċ
CDI	ILE	Α	78	30.086	19.834	-5.084			N
N	VAL	A	79	31.854	17.194	-0.603	1.00	23.70	
CA	VAL	A	79	32.878	16.422	0.095	1.00	23.40	C
			79	32.243	15.394	1.017	1.00	24.44	C
C	VAL	A			14.232	0.981	1.00	25.15	0
0	VAL	A	79	32.638			1.00	23.00	c
СВ	VAL	A	79	33.858	17.307	0.874			
CG1	VAL	A	79	34.656	16.524	1.907	1.00	22.25	<u> c </u>
	VAL	A	79	34.830	18.006	-0.077	1.00	22.73	C
CG2				31.258	15.787	1.820	1.00	25.12	N
N	ALA	A	80			2.700	1.00	25.90	С
CA	ALA	A	80	30.575	14.849				c
С	ALA	A	80	29.765	13.840	1.895	1.00	27.36	
	ALA	A	80	29.609	12.695	2.314	1.00	28.42	0
1 ()				29.689	15.571	3.690	1.00	24.87	Ċ
0	ALA	I A	80		14.245	0.749	1.00	28.62	N
СВ					1 14 /47	I V./47	, 1.00	,0.0-	
	GLY	A	81	29.235			1.00	30.56	1 C
CB N		A	81	28.466	13.337	-0.097	1.00	30.56	C
СВ	GLY						1.00 1.00	30.56 32.31 32.11	COO

				00	/ / /				
N	VAL	Α	82	30.556	12.667	-1.132	1.00	32.99	N
CA	VAL	A	82	31.535	11.714	-1.646	1.00	33.88	С
C	VAL	A	82	31.827	10.661	-0.586	1.00	35.83	С
0	VAL	A	82	31.598	9.465	-0.785	1.00	37.36	0
	VAL	A	82	32.826	12.415	-2.082	1.00	33.65	С
CB		Ā	82	33.943	11.418	-2.341	1.00	32.35	C
CG1	VAL		82	32.578	13.263	-3.334	1.00	33.37	С
CG2	VAL	<u> </u>	83	32.170	11.110	0.617	1.00	36.36	N
<u> </u>	GLN	A	83	32.387	10.238	1.757	1.00	36.77	С
CA	GLN	A		31.271	9.199	1.851	1.00	36.63	С
<u>c</u>	GLN	Α	83		8.003	1.903	1.00	37.55	0
0	GLN	A	83	31.534		3.056	1.00	36.97	С
CB	GLN	A	83	32.437	11.041	3.489	1.00	36.84	c
CG	GLN	Α	83	33.765	11.611		1.00	38.07	c
CD	GLN	Α	83	33.698	12.194	4.888	1.00	39.74	0
OEI	GLN	Α	83	33.123	11.581	5.796	1.00	37.60	N
NE2	GLN	Α	83	34.247	13.375	5.119			N
N	ALA	Α	84	30.028	9.661	1.864	1.00	36.63	C
CA	ALA	A	84	28.872	8.782	1.983	1.00	36.65	
c	ALA	Α	84	28.805	7.776	0.849	1.00	36.36	c
o	ALA	A	84	28.499	6.613	1.097	1.00	35.48	10
CB CB	ALA	A	84	27.592	9.595	2.089	1.00	36.13	<u>C</u>
N N	MET	A	85	29.116	8.196	-0.367	1.00	37.76	N
	MET	A	85	29.111	7.287	-1.508	1.00	39.69	C
CA		A	85	30.223	6.257	-1.367	1.00	41.00	C
<u>c</u>	MET	+	85	30.009	5.060	-1.568	1.00	41.42	0
<u> </u>	MET	A		29.264	8.053	-2.820	1.00	40.12	С
CB	MET	A	85	28.061	8.945	-3.132	1.00	40.96	С
CG	MET	Α	85		8.001	-3.315	1.00	41.36	S
SD	MET	Α	85	26.538		-4.683	1.00	40.65	c
CE	MET	A	85	26.973	6.931		1.00	42.08	N
N	GLN	A	86	31.410	6.738	-0.992		42.74	C
CA	GLN	Α	86	32.553	5.840	-0.817	1.00		c
c	GLN	Α	86	32.252	4.822	0.259	1.00	42.97	0
0	GLN	Α	86	32.169	3.616	-0.027	1.00	43.31	
СВ	GLN	A	86	33.823	6.663	-0.577	1.00	43.27	<u>c</u>
CG	GLN	Α	86	34.312	7.257	-1.888	1.00	44.50	<u>c</u>
CD	GLN	Α	86	35.480	8.188	-1.859	1.00	45.31	C
OEI	GLN	A	86	35.978	8.671	-0.844	1.00	45.76	0
NE2	GLN	A	86	35.975	8.516	-3.067	1.00	45.96	N
N	ASP	A	87	31.763	5.277	1.408	1.00	43.03	N_
	ASP	A	87	31.337	4.384	2.470	1.00	44.15	C
CA	ASP	A	87	30.274	3.396	2.008	1.00	45.71	C
<u>c</u>			87	30.250	2.245	2.453	1.00	46.35	0
0	ASP	<u>A</u>		30.802	5.186	3.661	1.00	43.42	С
СВ	ASP	A	87	30.677	4.330	4.904	1.00	43.34	С
<u>cc</u>	ASP	A	87		3.517	5.157	1.00	44.06	0
ODI	ASP	A	87	31.598	4.458	5.632	1.00	42.70	ō
OD2	ASP	A	87	29.677		1.135	1.00	47.04	N
N	SER	A	88	29.370	3.825	0.654	1.00	48.12	C
CA	SER	A	88	28.293	2.977		1.00	49.19	1 c
С	SER	Α	88	28.814	1.828	-0.197			0
0	SER	A	88	28.259	0.731	-0.169	1.00	48.51	
СВ	SER	Α	88	27.281	3.803	-0.145	1.00	47.96	
OG	SER	A	88	27.686	3.947	-1.492	1.00	47.71	- 0
N	GLY	Α	89	29.809	2.112	-1.033	1.00	50.61	N
CA	GLY	A	89	30.381	1.147	-1.945	1.00	52.39	<u> c</u>
C	GLY	A	89	29.514	0.870	-3.164	1.00	54.05	C
0	GLY	A	89	29.776	-0.068	-3.925	1.00	54.48	0
	LEU	A	90	28.453	1.639	-3.374	1.00	55.16	N
N CA		A	90	27.568	1.451	-4.506	1.00	56.38	С
CA	LEU	_	90	28.365	1.603	-5.807	1.00	57.19	C
С	LEU	<u> </u>		29.179	2.512	-5.927	1.00	56.97	0
0	LEU	A	90			-4.548	1.00	56.95	Ċ
CB	LEU	Α	90	26.450	2.479		1.00	57.07	c
CG	LEU	Α	90	25.064	2.193	-4.018		56.91	c
CDI	LEU	A	90	24.119	3.328	-4.430	1.00		l c
CD2	LEU	A	90	24.503	0.865	-4.490	1.00	57.14	
N	GLU	A	91	28.000	0.803	-6.797	1.00	58.89	N C
CA	GLU	A	91	28.532	1.023	-8.143	1.00	60.44	<u> c</u> _
, C/1				27.379	1.498	-9.027	1.00	60.53	l C
С	GLU	A	91	41.517			1.00	59.77	0

				0 / /	770				
СВ	GLU	Α	91	29.199	-0.223	-8.703	1.00	61.56	<u>C</u>
	GLU	A	91	30.719	-0.181	-8.594	1.00	63.08	<u>C</u>
CG		A	91	31.404	-1.257	-9.414	1.00	64.10	С
CD	GLU		91	31.231	-1.261	-10.655	1.00	64.05	0
OEI	GLU	Α			-2.091	-8.804	1.00	64.55	0
OE2	GLU	A	91	32.116			1.00	61.08	N
N	ILE	Α	92	27.572	2.650	-9.658		61.83	c
CA	ILE	À	92	26.507	3.184	-10.517	1.00		
С	ILE	Α	92	26.734	2.696	-11.938	1.00	62.69	<u>c</u>
ō	ILE	A	92	27.835	2.776	-12.482	1.00	63.13	0
		A	92	26.414	4.708	-10.424	1.00	61.36	<u> </u>
СВ	ILE		92	25.864	5.103	-9.040	1.00	60.82	С
CGI ·	ILE	Α			5.304	-11.508	1.00	61.19	С
CG2	ILE	Α	92	25.538			1.00	60.43	C
CDI	ILE	Α	92	26.892	5.752	-8.144		63.87	N
N	THR	Α	93	25.717	2.047	-12.489	1.00		
CA	THR	Α	93	25.781	1.551	-13.860	1.00	65.29	C
c	THR	A	93	24.654	2.175	-14.672	1.00	66.26	<u>c</u>
0	THR	A	93	23.741	2.769	-14.099	1.00	66.46	0
			93	25.634	0.023	-13.923	1.00	65.14	C
CB	THR	A		24.503	-0.374	-13.130	1.00	65.30	0
OG1	THR	Α	93		-0.667	-13.413	1.00	65.19	С
CG2	THR	Α	93	26.882			1.00	67.78	N
N	GLU	Α	94	24.678	2.020	-15.992		+	c
CA	GLU	Α	94	23.619	2.572	-16.839	1.00	68.67	
C	GLU	A	94	22.280	1.938	-16.473	1.00	68.05	<u> </u>
0	GLU	Α	94	21.220	2.554	-16.551	1.00	67.97	0
	GLU	A	94	23.929	2.362	-18.315	1.00	70.29	<u>C</u>
CB		A	94	22.964	3.053	-19.266	1.00	72.04	С
CG	GLU			23.583	4.206	-20.025	1.00	73.06	C
CD	GLU	A	94			-20.570	1.00	73.57	0
OE1_	GLU	Α	94	22.821	5.037	_	1.00	73.83	ō
OE2	GLU	Α	94	24.827	4.302	-20.098			N
N	GLU	A	95	22.325	0.700	-15.999	1.00	67.33	
CA	GLU	Α	95	21.188	-0.051	-15.531	1.00	66.97	<u> c </u>
C	GLU	A	95	20.796	0.344	-14.109	1.00	64.95	C
	GLU	A	95	19.856	-0.224	-13.548	1.00	65.38	0
0		A	95	21.506	-1.555	-15.548	1.00	69.25	C
СВ	GLU			21.836	-2.102	-16.930	1.00	71.96	С
CG	GLU	A	95		-3.597	-16.938	1.00	73.58	С
CD	GLU	A	95	22.091		-15.861	1.00	74.24	0
OEI	GLU	A	95	22.000	-4.233			74.44	o
OE2	GLU	A	95	22.396	-4.174	-18.011	1.00		N
N	ASN	Α	96	21.515	1.286	-13.522	1.00	61.76	
CA	ASN	Α	96	21.332	1.731	-12.162	1.00	58.00	<u>c</u>
C	ASN	A	96	20.938	3.195	-12.036	1.00	55.15	C
		A	96	20.028	3.537	-11.278	1.00	54.98	0
0	ASN		96	22.673	1.537	-11.409	1.00	57.96	C
CB	ASN	<u>A</u>			1.041	-10.004	1.00	58.40	С
CC	ASN	Α	96	22.424		-9.766	1.00	59.02	o
ODI	ASN	A	96	21.416	0.373			58.61	Ň
ND2	ASN	Α	96	23.319	1.367	-9.087	1.00		
N	ALA	Α	97	21.635	4.072	-12.739	1.00	51.18	N
CA	ALA	A	97	21.488	5.508	-12.680	1.00	47.79	C
C	ALA	A	97	20.095	6.010	-12.346	1.00	45.31	C
	ALA	A	97	19.902	6.772	-11.399	1.00	45.01	0
0			97	21.961	6.128	-13.996	1.00	47.88	С
CB	ALA	A			5.621	-13.091	1.00	42.91	N
N	THR	_ A	98	19.100		-13.000	1.00	40.62	С
CA	THR	A	98	17.699	5.931			39.36	C
С	THR	A	98	17.037	5.703	-11.661	1.00		
0	THR	Α	98	16.042	6.378	-11.339	1.00	38.34	0
СВ	THR	A	98	17.005	5.048	-14.090	1.00	40.57	<u> </u>
	THR	A	98	17.234	5.712	-15.349	1.00	41.06	0
OG1			98	15.543	4.807	-13.860	1.00	39.73	С
CG2	THR	A			4.763	-10.855	1.00	38.10	N
N	ARG	A	99	17.519		-9.569	1.00	37.30	C
CA	ARG	A	99	16.920	4.456			36.58	c
С	ARG	Α	99	17.598	5.091	-8.368	1.00		
0	ARG	A	99	17.145	4.876	-7.234	1.00	36.97	<u> </u>
СВ	ARG	A	99	16.875	2.928	-9.394	1.00	37.24	C
			99	16.088	2.202	-10.470	1.00	37.24	C
CG	ARG			14.607	2.503	-10.421	1.00	37.11	С
CD	ARG	A	99			-9.256	1.00	37.06	N
NE	ARG	A	99	13.916	1.972		1.00	37.39	c
CZ	ARG	A	99	12.751	2.448	-8.809			N
NHI	ARG	A	99	12.158	3.460	-9.430	1.00	36.88	114



									,
NH2	ARG	Α	99	12.152	1.939	-7.737	1.00	37.54	N
N	ILE	A	100	18.679	5.822	-8.561	1.00	35.14	l N
			100	19.406	6.480	-7.488	1.00	34.64	С
CA	ILE	<u>A</u>		19.191	7.990	-7.556	1.00	34.51	С
<u>c</u>	ILE	Α	100			-8.618	1.00	34.55	0
0	ILE	Α	100	19.417	8.578				
CB	ILE	Α	100	20.922	6.224	-7.582	1.00	34.85	C
CG1	ILE	A	100	21.234	4.747	-7.853	1.00	34.72	C
CG2	ILE	A	100	21.624	6.691	-6.318	1.00	34.69	C
				22.465	4.568	-8.720	1.00	34.52	С
CDI	ILE	Α	100				1.00	34.35	N
N	GLY	Α	101	18.781	8.612	-6.457			
CA	GLY	A	101	18.555	10.059	-6.465	1.00	33.77	C
C	GLY	Α	101	19.240	10.769	-5.308	1.00	33.33	C
	GLY	A	101	20.126	10.214	-4.654	1.00	33.58	0
0				18.803	11.995	-5.024	1.00	32.06	N
N	ALA	A	102			+	1.00	30.82	С
CA	ALA	A	102	19.383	12.798	-3.953			c
С	ALA	Α	102	18.332	13.668	-3.284	1.00	29.70	
0	ALA	A	102	17.363	14.086	-3.909	1.00	31.01	0
		A	102	20.516	13.678	-4.479	1.00	30.53	C
CB	ALA				13.933	-1.999	1.00	28.03	N
N	ALA		103	18.512			1.00	25.22	c
CA	ALA	Α	103	17.575	14.753	-1.230			c
С	ALA	Α	103	18.363	15.540	-0.184	1.00	23.85	
ō	ALA	Α	103	18.559	15.134	0.952	1.00	23.10	0
		A	103	16.497	13.910	-0.595	1.00	24.51	С
CB	ALA				16.587	-0.671	1.00	23.05	N
N	ILE	A	104	19.019				22.38	c
CA	ILE	Α	104	19.908	17.401	0.135	1.00		
С	ILE	Α	104	19.394	18.834	0.207	1.00	22.22	C
o	ILE	A	104	19.072	19.399	-0.839	1.00	22.93	0
			104	21.327	17.415	-0.478	1.00	21.90	C
СВ	ILE	A			15.989	-0.520	1.00	21.01	С
CG1	ILE	A	104	21.877			1.00	21.57	c
CG2	ILE	Α	104	22.239	18.354	0.291			
CD1	ILE	A	104	22.977	15.754	-1.509	1.00	19.64	<u> c </u>
N	GLY	A	105	19.352	19.406	1.402	1.00	21.16	N
		A	105	18.934	20.783	1.569	1.00	20.18	C
CA	GLY			19.941	21.613	2.354	1.00	19.37	С
<u> </u>	GLY	Α	105				1.00	19.81	0
0	GLY	_ A	105	21.043	21.222	2.690			
N	SER	Α	106	19.528	22.815	2.693	1.00	19.13	N
CA	SER	Α	106	20.275	23.799	3.448	1.00	18.03	C
C	SER	A	106	19.252	24.795	4.004	1.00	19.00	С
		$\overline{}$	106	18.175	24.921	3.419	1.00	19.81	0
0	SER	A				2.526	1.00	17.16	С
CB	SER	Α	106	21.271	24.488				
OG	SER	I A	106	22.092	25.439	3.156	1.00	15.90	0
N	GLY	Α	107	19.547	25.475	5.095	1.00	19.19	N
	GLY	Ā	107	18.639	26.453	5.655	1.00	18.05	С
CA				18.625	27.702	4.781	1.00	18.77	С
С	GLY	A	107			4.418	1.00	18.68	0
0	GLY	A	107	17.531	28.123				N N
N	ILE	Α	108	19.781	28.295	4.496	1.00	19.98	
CA	ILE	A	108	19.854	29.517	3.697	1.00	21.92	C
C	ILE	A	108	20.795	29.409	2.502	1.00	22.33	С
~			108	20.837	30.295	1.645	1.00	22.50	0
0	ILE	I A	1 100	40.037				22.68	C
				70 202	20 744	A 576	1 1 00		1 ~
CB	ILE	A	108	20.293	30.744	4.526	1.00		
CB CG1	ILE	A		20.293 19.999	32.067	3.812	1.00	22.56	С
CG1	ILE	A	108				1.00	22.56 22.23	С
CG1 CG2	ILE ILE	A	108 108 108	19.999 21.790	32.067	3.812	1.00	22.56	
CG1 CG2 CD1	ILE ILE ILE	A A A	108 108 108 108	19.999 21.790 18.740	32.067 30.677 32.773	3.812 4.834 4.209	1.00 1.00 1.00	22.56 22.23	С
CG1 CG2 CD1 N	ILE ILE ILE GLY	A A A	108 108 108 108 109	19.999 21.790 18.740 21.596	32.067 30.677 32.773 28.356	3.812 4.834 4.209 2.417	1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23	C C N
CG1 CG2 CD1	ILE ILE ILE GLY GLY	A A A A	108 108 108 108 109 109	19.999 21.790 18.740 21.596 22.490	32.067 30.677 32.773 28.356 28.191	3.812 4.834 4.209 2.417 1.282	1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77	C C N C
CG1 CG2 CD1 N	ILE ILE ILE GLY	A A A	108 108 108 108 109	19.999 21.790 18.740 21.596 22.490 23.618	32.067 30.677 32.773 28.356 28.191 29.206	3.812 4.834 4.209 2.417 1.282 1.299	1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95	C C N C C
CG1 CG2 CD1 N CA	ILE ILE ILE GLY GLY GLY	A A A A	108 108 108 108 109 109	19.999 21.790 18.740 21.596 22.490	32.067 30.677 32.773 28.356 28.191	3.812 4.834 4.209 2.417 1.282 1.299 2.302	1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95 24.99	C
CG1 CG2 CD1 N CA C	ILE ILE ILE GLY GLY GLY GLY	A A A A A A	108 108 108 108 109 109 109 109	19.999 21.790 18.740 21.596 22.490 23.618 24.325	32.067 30.677 32.773 28.356 28.191 29.206	3.812 4.834 4.209 2.417 1.282 1.299	1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95	C C N C C
CG1 CG2 CD1 N CA C O	ILE ILE ILE GLY GLY GLY GLY GLY	A A A A A A A	108 108 108 108 109 109 109 109 110	19.999 21.790 18.740 21.596 22.490 23.618 24.325 23.968	32.067 30.677 32.773 28.356 28.191 29.206 29.369 29.728	3.812 4.834 4.209 2.417 1.282 1.299 2.302 0.119	1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95 24.99 22.53	C
CG1 CG2 CD1 N CA C O N	ILE ILE ILE GLY GLY GLY GLY GLY	A A A A A A A	108 108 108 108 109 109 109 109 110 110	19.999 21.790 18.740 21.596 22.490 23.618 24.325 23.968 25.186	32.067 30.677 32.773 28.356 28.191 29.206 29.369 29.728 30.444	3.812 4.834 4.209 2.417 1.282 1.299 2.302 0.119 -0.086	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95 24.99 22.53 21.57	C N C C C O N
CG1 CG2 CD1 N CA C	ILE ILE ILE GLY GLY GLY GLY GLY	A A A A A A A	108 108 108 108 109 109 109 109 110 110	19.999 21.790 18.740 21.596 22.490 23.618 24.325 23.968 25.186 25.295	32.067 30.677 32.773 28.356 28.191 29.206 29.369 29.728 30.444 31.872	3.812 4.834 4.209 2.417 1.282 1.299 2.302 0.119 -0.086 0.353	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95 24.99 22.53 21.57 21.34	C C C O N C C C C C C C C C C C C C C C
CG1 CG2 CD1 N CA C O N	ILE ILE ILE GLY GLY GLY GLY GLY GLY	A A A A A A A	108 108 108 108 109 109 109 109 110 110	19.999 21.790 18.740 21.596 22.490 23.618 24.325 23.968 25.186	32.067 30.677 32.773 28.356 28.191 29.206 29.369 29.728 30.444	3.812 4.834 4.209 2.417 1.282 1.299 2.302 0.119 -0.086 0.353 -0.426	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95 24.99 22.53 21.57 21.34 20.36	C C C O N C C C O O
CG1 CG2 CD1 N CA C O N CA C	ILE ILE ILE GLY GLY GLY GLY GLY GLY GLY GLY GLY GLY	A A A A A A A A A	108 108 108 108 109 109 109 109 110 110 110	19.999 21.790 18.740 21.596 22.490 23.618 24.325 23.968 25.186 25.295	32.067 30.677 32.773 28.356 28.191 29.206 29.369 29.728 30.444 31.872	3.812 4.834 4.209 2.417 1.282 1.299 2.302 0.119 -0.086 0.353	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95 24.99 22.53 21.57 21.34	C C C O N C C C O N C C C O N C C C O N C C C O N C C C O N C C C O N C C C O N C C C C
CG1 CG2 CD1 N CA C O N CA C O N	ILE ILE ILE GLY GLY GLY GLY GLY GLY GLY GLY LEU	A A A A A A A A A A A	108 108 108 108 109 109 109 109 110 110 110	19.999 21.790 18.740 21.596 22.490 23.618 24.325 23.968 25.186 25.295 25.779 25.141	32.067 30.677 32.773 28.356 28.191 29.206 29.369 29.728 30.444 31.872 32.717 32.142	3.812 4.834 4.209 2.417 1.282 1.299 2.302 0.119 -0.086 0.353 -0.426 1.646	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95 24.99 22.53 21.57 21.34 20.36	C C C O N C C C O O
CG1 CG2 CD1 N CA C O N CA C O N CA C O N CA C	ILE ILE ILE GLY GLY GLY GLY GLY GLY GLY GLY LEU	A A A A A A A A A A A A	108 108 108 108 109 109 109 109 110 110 110 111 111	19.999 21.790 18.740 21.596 22.490 23.618 24.325 23.968 25.186 25.295 25.779 25.141 25.285	32.067 30.677 32.773 28.356 28.191 29.206 29.369 29.728 30.444 31.872 32.717 32.142 33.486	3.812 4.834 4.209 2.417 1.282 1.299 2.302 0.119 -0.086 0.353 -0.426 1.646 2.183	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95 24.99 22.53 21.57 21.34 20.36 21.33 21.06	C C C O N C C C O N C C C C C C C C C C
CG1 CG2 CD1 N CA C O N CA C	ILE ILE ILE GLY GLY GLY GLY GLY GLY GLY GLY LEU	A A A A A A A A A A A	108 108 108 108 109 109 109 109 110 110 110 111 111	19.999 21.790 18.740 21.596 22.490 23.618 24.325 23.968 25.186 25.295 25.779 25.141 25.285 26.612	32.067 30.677 32.773 28.356 28.191 29.206 29.369 29.728 30.444 31.872 32.717 32.142 33.486 34.144	3.812 4.834 4.209 2.417 1.282 1.299 2.302 0.119 -0.086 0.353 -0.426 1.646 2.183 1.839	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95 24.99 22.53 21.57 21.34 20.36 21.33 21.06	C C C C C C C C C C C C C C C C C C C
CG1 CG2 CD1 N CA C O N CA C O N CA C O N CA C	ILE ILE ILE GLY GLY GLY GLY GLY GLY GLY GLY LEU	A A A A A A A A A A A A	108 108 108 108 109 109 109 109 110 110 110 111 111	19.999 21.790 18.740 21.596 22.490 23.618 24.325 23.968 25.186 25.295 25.779 25.141 25.285	32.067 30.677 32.773 28.356 28.191 29.206 29.369 29.728 30.444 31.872 32.717 32.142 33.486 34.144 35.343	3.812 4.834 4.209 2.417 1.282 1.299 2.302 0.119 -0.086 0.353 -0.426 1.646 2.183 1.839 1.573	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95 24.99 22.53 21.57 21.34 20.36 21.33 21.06 19.97 19.87	C C C O N C C C C C C C C C C C C C C C
CG1 CG2 CD1 N CA C O N CA C O N CA C C O O O O O O O O O O O O O O O O	ILE ILE ILE GLY GLY GLY GLY GLY GLY GLY GLY GLY LEU LEU	A A A A A A A A A A A A A A A A A A A	108 108 108 108 109 109 109 109 110 110 110 111 111	19.999 21.790 18.740 21.596 22.490 23.618 24.325 23.968 25.186 25.295 25.779 25.141 25.285 26.612	32.067 30.677 32.773 28.356 28.191 29.206 29.369 29.728 30.444 31.872 32.717 32.142 33.486 34.144 35.343 33.458	3.812 4.834 4.209 2.417 1.282 1.299 2.302 0.119 -0.086 0.353 -0.426 1.646 2.183 1.839	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95 24.99 22.53 21.57 21.34 20.36 21.33 21.06 19.97 19.87 21.38	C C C O N C C C C C C C C C C C C C C C
CG1 CG2 CD1 N CA C O N CA C O N CA C C O C C C C C C C C C C C C C C C	ILE ILE ILE GLY GLY GLY GLY GLY GLY GLY GLY GLY LEU LEU	A A A A A A A A A A A A A A A A A A A	108 108 108 108 109 109 109 109 110 110 110 111 111	19.999 21.790 18.740 21.596 22.490 23.618 24.325 23.968 25.186 25.295 25.779 25.141 25.285 26.612 26.655	32.067 30.677 32.773 28.356 28.191 29.206 29.369 29.728 30.444 31.872 32.717 32.142 33.486 34.144 35.343	3.812 4.834 4.209 2.417 1.282 1.299 2.302 0.119 -0.086 0.353 -0.426 1.646 2.183 1.839 1.573	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.56 22.23 22.91 23.23 22.77 23.95 24.99 22.53 21.57 21.34 20.36 21.33 21.06 19.97 19.87	C C C O N C C C C C C C C C C C C C C C

				0///	70				
CD2	LEU	Α	111	23.605	35.470	3.584	1.00	20.64	С
N	GLY	A	112	27.706	33.399	1.864	1.00	19.90	N
CA	GLY	A	112	29.025	33.909	1.563	1.00	19.57	C
	GLY	A	112	29.093	34.582	0.202	1.00	19.83	C
<u>c</u>		Ā	112	29.436	35.763	0.110	1.00	19.16	0
0	GLY	A	113	28.660	33.865	-0.835	1.00	20.37	N
N	LEU		113	28.717	34.373	-2.195	1.00	21.45	С
CA	LEU	<u>A</u>		27.667	35.432	-2.470	1.00	22.87	C
С	LEU	A	113		36.287	-3.349	1.00	24.10	0
0	LEU	Α	113	27.887		-3.233	1.00	21.15	c
CB	LEU _	A	113	28.668	33.257		1.00	21.11	c
CG	LEU	Α	113	29.966	32.437	-3.379		20.06	c
CDI	LEU	Α	113	29.850	31.447	-4.527	1.00		c
CD2	LEU	Α	113	31.172	33.342	-3.549	1.00	20.34	
N	ILE	Α	114	26.567	35.437	-1.726	1.00	23.17	N
CA	ILE	Α	114	25.566	36.481	-1.922	1.00	23.67	C
С	ILE	Α	114	26.153	37.807	-1.442	1.00	24.59	<u>c</u>
0	ILE	Α	114	26.093	38.806	-2.156	1.00	24.19	0
CB	ILE	A	114	24.246	36.209	-1.205	1.00	23.59	С
CGI	ILE	A	114	23.614	34.926	-1.749	1.00	23.20	<u>C</u>
		A	114	23.293	37.390	-1.373	1.00	23.96	C
CG2	ILE		114	22.368	34.488	-1.014	1.00	22.82	С
CDI	ILE	A		26.791	37.773	-0.274	1.00	26.24	N
N	GLU	A	115			0.283	1.00	28.37	С
CA	GLU	A	115	27.382	38.995	-0.625	1.00	29.01	Č
C	GLU	<u> </u>	115	28.485	39.536		1.00	28.40	0
0	GLU	Α	115	28.597	40.732	-0.855			c
СВ	GLU	Α	115	27.927	38.748	1.682	1.00	28.58	
CG	GLU	A	115	26.918	38.301	2.723	1.00	29.16	ļ <u>c</u>
CD	GLU	Α	115	27.594	38.057	4.056	1.00	30.83	C
OE1	GLU	A	115	27.136	37.229	4.861	1.00	31.28	0
OE2	GLU	A	115	28.643	38.695	4.293	1.00	32.63	0
N	GLU	A	116	29.313	38.632	-1.139	1.00	30.70	N
CA	GLU	A	116	30.396	38.976	-2.04i	1.00	31.25	C
	GLU	A	116	29.865	39.618	-3.315	1.00	29.86	С
C			116	30.328	40.689	-3.701	1.00	29.96	0
0	GLU	A	116	31,211	37.729	-2.396	1.00	33.77	С
СВ	GLU	A		32.443	38.037	-3.238	1.00	37.37	C
CG	GLU	A	116	 _	36.848	-3.326	1.00	39.87	С
CD	GLU	A	116	33.380		-2.253	1.00	41.44	0
OEI	GLU	A	116	33.652	36.249	-4.447	1.00	40.97	ō
OE2	GLU	A	116	33.825	36.519		1.00	27.58	N
N	ASN	A	117	28.893	38.962	-3.954		25.34	c
CA	ASN	I A	117	28.342	39.520	-5.195	1.00		c
C	ASN	Α	117	27.694	40.865	-4.966	1.00	25.27	0
0	ASN	Α	117	28.025	41.830	-5.663	1.00	25.06	
СВ	ASN	A	117	27.401	38.518	-5.849	1.00	23.78	<u>C</u>
CG	ASN	Α	117	28.223	37.458	-6.584	1.00	23.22	<u>C</u>
ODI	ASN	A	117	28.593	37.682	-7.736	1.00	23.18	0
ND2	ASN	A	117	28.516	36.354	-5.929	1.00	22.14	N
N	HIS	A	118	26.877	40.991	-3.922	1.00	25.45	N
	HIS	A	118	26.234	42.236	-3.569	1.00	25.44	С
CA	HIS	Â	118	27.235	43.361	-3.319	1.00	26.62	С
			118	27.016	44.496	-3.749	1.00	26.46	0
0	HIS	A	118	25.330	42.060	-2.335	1.00	24.14	С
СВ	HIS	<u> </u>			43.273	-2.164	1.00	23.03	С
CG	HIS	A	118	24.462	44.116	-1.095	1.00	23.14	N
NDI	HIS	A	118	24.589		-2.955	1.00	22.09	C
CD2	HIS	A	118	23.480	43.774		1.00	22.98	c
CEI	HIS	Α	118	23.700	45.101	-1.220		22.18	N
NE2	HIS	Α	118	23.026	44.916	-2.342	1.00		N
N	THR	A	119	28.347	43.054	-2.668	1.00	27.91	
CA	THR	Α	119	29.438	43.991	-2.456	1.00	29.63	C
C	THR	Α	119	29.983	44.489	-3.790	1.00	30.90	C
0	THR	A	119	29.968	45.696	-4.060	1.00	32.10	0
CB	THR	A	119	30.574	43.315	-1.665	1.00	29.98	C
	THR	A	119	30.019	42.865	-0.421	1.00	30.86	0
OG1			119	31.718	44.270	-1.392	1.00	29.85	C
CG2	THR			30.316	43.565	-4.687	1.00	31.36	N
l N	SER	Α	120		43.912	-6.021	1.00	33.00	C
CA	SER	A	120	30.777					C
CA C	SER SER	A	120 120 120	29.769 30.150	44.800 45.758	-6.743 -7.410	1.00	35.01 35.40	C 0

			T	21.021	42.671	-6.875	1.00	32.36	C
CB	SER	Α	120	31.031	41.846	-6.313	1.00	31.75	0
OG	SER	Α	120	32.030	44.470	-6.627	1.00	36.66	N
N	LEU	Α	121	28.484		-7.285	1.00	38.56	С
CA	LEU	Α	121	27.455	45.262	-6.674	1.00	40.19	C
С	LEU	Α	121	27.368	46.653		1.00	40.35	0
0	LEU	Α	121	27.089	47.641	-7.348	1.00	37.83	c
CB	LEU	Α	121	26.106	44.542	-7.201		36.97	c
CG	LEU	Α	121	24.865	45.415	-7.442	1.00	36.28	c
CDI	LEU	Α _	121	24.528	45.466	-8.921	1.00		C
CD2	LEU	Α	121	23.708	44.901	-6.611	1.00	36.72	
N	MET	A	122	27.576	46.750	-5.367	1.00	43.04	N
CA	MET	A	122	27.496	48.051	-4.707	1.00	46.33	С
C	MET	A	122	28.683	48.923	-5.108	1.00	46.71	<u>c</u>
	MET	A	122	28.549	50.140	-5.220	1.00	47.31	0
0		A	122	27.431	47.875	-3.198	1.00	48.07	С
CB	MET		122	26.196	48.466	-2.532	1.00	50.31	С
CG	MET	A	122	26.330	48.350	-0.728	1.00	53.75	S
SD	MET	A			50.064	-0.250	1.00	53.18	С
CE	MET	A	122	26.105	48.291	-5.337	1.00	46.45	N
N	ASN	A	123	29.831		-5.682	1.00	46.36	С
CA	ASN	A	123	31.042	48.999		1.00	45.60	c
С	ASN	Α	123	31.412	49.047	-7.142		46.39	ō
0	ASN	Α	123	32.302	49.845	-7.489	1.00	47.24	c
CB	ASN	Α	123	32.212	48.384	-4.869	1.00		c
CG	ASN	A	123	32.091	48.822	-3.415	1.00	48.06	
OD1	ASN	A	123	32.236	48.009	-2.502	1.00	48.53	0
	ASN	A	123	31.799	50.105	-3.213	1.00	48.27	N
ND2		A	124	30.776	48.295	-8.026	1.00	44.54	N
N	GLY		124	31.149	48.300	-9.427	1.00	42.78	C
CA	GLY	A		29.989	48.188	-10.386	1.00	42.39	С
C	GLY	A	124	30.226	48.129	-11.606	1.00	43.03	0
0	GLY	Α	124		48.163	-9.898	1.00	41.26	N
N	GLY	A	125	28.756		-10.773	1.00	40.34	C
CA	GLY	Α	125	27.592	48.015		1.00	40.27	С
С	GLY	Α	125	27.381	46.551	-11.133	1.00	38.53	0
0	GLY	A	125	28.175	45.678	-10.790		41.29	N
N .	PRO	Α	126	26.332	46.262	-11.900	1.00		c
CA	PRO	Α	126	25.971	44.928	-12.314	1.00	41.55	C
C	PRO	Α	126	26.927	44.186	-13.211	1.00	42,21	+
0	PRO	A	126	26.762	42.964	-13.385	1.00	42.68	10
СВ	PRO	A	126	24.624	45.099	-13.027	1.00	41.13	C
	PRO	Ā	126	24.577	46.524	-13.423	1.00	41.26	<u> C</u>
CG		A	126	25.328	47.272	-12.341	1.00	41.11	C
CD	PRO		127	27.971	44,787	-13.754	1.00	43.43	I N
N	ARG	A	127	28.910	44.074	-14.616	1.00	44.73	l C
CA	ARG	A		29.967	43.347	-13.802	1.00	44.18	C
C	ARG	A	127		42.517	-14.326	1.00	44.09	0
0	ARG	A	127	30.718	45.013	-15.649	1.00	46.61	С
CB	ARG	Α	127	29.542		-16.901	1.00	48.61	C
CG	ARG	A	127	28.687	45.176		1.00	50.41	c
CD	ARG	Α	127	29.498	45.033	-18.186		51.94	N
NE	ARG	Α	127	29.125	46.076	-19.138	1.00	52.60	C
CZ	ARG	A	127	29.848	47.140	-19.462	1.00		N
NHI	ARG	A	127	31.051	47.369	-18.951	1.00	52.07	
NH2	ARG	A	127	29.335	48.004	-20.340	1.00	53.61	N .
	LYS	A	128	30.019	43.644	-12.504	1.00	43.09	N
N CA		1 A	128	30.981	42.988	-11.625	1.00	42.41	C
CA	LYS	A	128	30.360	41.793	-10.914	1.00	40.89	С
<u>c</u>	LYS		128	31.045	41.117	-10.140	1.00	41.77	0
0	LYS	A		31.576	43.992	-10.640	1.00	43.33	С
СВ	LYS	^ <u> </u>	128		45.130	-11.322	1.00	44.91	С
CG	LYS	Α	128	32.325	45.254	-10.788	1.00	46.28	С
CD	LYS	A	128	33.747		-11.907	1.00	46.86	c
CE	LYS	A	128	34.769	45.362		1.00	47.29	N
NZ	LYS	A	128	35.099	44.039	-12.514		38.34	N
N	ILE	A	129	29.092	41.484	-11.181	1.00		
	ILE	A	129	28.474	40.313	-10.586	1.00	36.66	C
1 1 2				1 -0.051	39.043	-11.299	1.00	35.18	C
CA		Α	129	28.951	1 33.043				
С	ILE	A			38.876	-12.499	1.00	35.66	<u> </u>
C 0	ILE ILE	Α	129	28.755	38.876		1.00	35.66 36.26	С
C O CB	ILE ILE ILE	A A	129 129	28.755 26.935	38.876 40.318	-12.499			C C
C 0	ILE ILE	Α	129	28.755	38.876	-12.499 -10.646	1.00	36.26	С

				00/	110			,	
CDI	ILE	Α	129	24.803	41.547	-9.968	1.00	35.30	C
N	SER	Α	130	29.478	38.080	-10.560	1.00	33.85	N
	SER	A	130	29.883	36.813	-11.140	1.00	31.89	С
CA			130	28.789	36.177	-11.986	1.00	32.13	С
C	SER	A				-11.582	1.00	33.21	ō
0	SER	Α	130	27.620	36.054				
CB	SER	Α	130	30.240	35.819	-10.023	1.00	30.42	C
OG	SER	Α	130	30.389	34.519	-10.587	1.00	30.47	0
N	PRO	Α	131	29.191	35.552	-13.092	1.00	30.65	N
CA	PRO	Α	131	28.299	34.765	-13.917	1.00	29.11	C
C	PRO	Α	131	27.785	33.528	-13.200	1.00	29.02	C
			131	26.776	32.955	-13.637	1.00	30.14	0
0	PRO	A				-15.126	1.00	28.44	c
CB	PRO	Α	131	29.124	34.375				
CG	PRO	A	131	30.409	35.087	-15.033	1.00	28.97	C
CD	PRO	Α	131	30.581	35.557	-13.612	1.00	29.65	C
N	PHE	Α	132	28.441	33.063	-12.136	1.00	27.36	N
CA	PHE	Α	132	27.960	31.926	-11.380	1.00	27.08	C
C	PHE	A	132	27.173	32.321	-10.138	1.00	26.08	С
		+	132	26.759	31.457	-9.349	1.00	26.45	0
0	PHE	A				-10.982	1.00	27.86	Č
СВ	PHE	A	132	29.120	30.991				c
CG	PHE	A	132	29.895	30.505	-12.182	1.00	28.13	
CDI	PHE	Α	132	31.227	30.847	-12.339	1.00	27.90	C
CD2	PHE	Α	132	29.289	29.734	-13.149	1.00	27.70	С
CEI	PHE	A	132	31.920	30.424	-13.452	1.00	28.55	С
CE2	PHE	A	132	29.991	29.306	-14.261	1.00	27.80	С
CZ	PHE	A	132	31.308	29.658	-14.413	1.00	27.46	С
				26.852	33.592	-9.954	1.00	24.74	N
N	PHE	A	133			-8.776	1.00	24.54	c
CA	PHE	Α	133	26.121	34.021				c
С	PHE	Α	133	24.964	33.090	-8.439	1.00	24.38	
0	PHE	Α	133	24.861	32.706	-7.272	1.00	24.96	0
CB	PHE	Α	133	25.593	35.451	-8.914	1.00	24.48	C
CG	PHE	A	133	24.493	35.771	-7.943	1.00	23.58	С
CDI	PHE	A	133	24.769	35.949	-6.603	1.00	23.84	С
CD2		A	133	23.184	35.882	-8.375	1.00	23.84	С
	PHE	+				-5.709	1.00	23.71	С
CEI	PHE	A	133	23.751	36.246			23.70	c
CE2	PHE	A	133	22.167	36.173	-7.492	1.00		
CZ	PHE	Α	133	22.450	36.356	-6.148	1.00	23.57	C
N	VAL	Α	134	24.050	32.868	-9.381	1.00	23.61	N
CA	VAL	A	134	22.876	32.053	-9.096	1.00	22.99	C
С	VAL	Α	134	23.165	30.617	-8.725	1.00	22.25	C
0	VAL	A	134	22.843	30.189	-7.616	1.00	22.24	0
				21.848	32.123	-10.242	1.00	22.72	С
CB	VAL	Α	134				1.00	22.55	c
CGI	VAL	Α	134	20.659	31.215	-9.955			
CG2	VAL	A	134	21.386	33.553	-10.432	1.00	22.11	C
N	PRO	Α	135	23.800	29.826	-9.581	1.00	22.78	N
CA	PRO	A	135	24.084	28.420	-9.339	1.00	22.59	С
С	PRO	Α	135	25.084	28.127	-8.241	1.00	22.00	С
0	PRO	A	135	25.281	26.982	-7.813	1.00	20.80	0
1000	CB	PRO	A	135	24.618	27.904	-10.681	1.00	22.31
				135	25.145	29.121	-11.356	1.00	21.93
1001	CG	PRO	A				-10.954	1.00	22.09
1002	CD	PRO	A	135	24.211	30.240			
1003	N	SER	A	136	25.773	29.170	-7. 7 70	1.00	21.31
1004	CA	SER	Α	136	26.758	29.002	-6.719	1.00	20.34
1005	С	SER	Α	136	26.155	29.251	-5.348	1.00	19.91
1006	0	SER	A	136	26.823	28.970	-4.356	1.00	21.13
1007	СВ	SER	A	136	27.926	29.958	-6.967	1.00	19.97
		+	A	136	27.646	31.272	-6.556	1.00	19.96
1008	OG	SER				29.770	-5.285	1.00	18.88
1009	N	THR	Α	137	24.936				18.15
1010	CA	THR	Α	137	24.280	30.087	-4.040	1.00	
1011	С	THR	Α	137	22.985	29.351	-3.757	1.00	18.90
1012	0	THR	Α	137	22.581	29.274	-2.581	1.00	18.18
1013	СВ	THR	A	137	23.916	31.604	-3.999	1.00	17.20
1014	OG1	THR	A	137	23.015	31.883	-5.079	1.00	15.95
				137	25.142	32.469	-4.124	1.00	17.33
1015	CG2	THR	Α		· · · · · · · · · · · · · · · · · · ·		-4.804	1.00	19.45
1016	N	ILE	<u> </u>	138	22.213	29.041			
1017	CA	ILE	Α	138	20.877	28.482	-4.541	1.00	19.38
1018	С	ILE	Α	138	21.020	27.139	-3.844	1.00	19.57
1019	0	ILE	Α	138	21.852	26.292	-4.159	1.00	20.13
						20.411	-5.760	1.00	19.43
1020	CB	ILE	I A	138	19.979	28.411	-3.700	1.00	1 17.43

1022 C 1023 C 1024 N 1025 C 1026 C 1027 C 1028 C 1029 C 1030 C 1031 N 1032 C	CA	ILE ILE ILE VAL VAL VAL	A A A A	138 138 138 139	20.656 19.521 19.620	27.763 29.812 27.294	-6.974 -6.159 -7.992	1.00 1.00	20.56 20.24 21.35
1022 C 1023 C 1024 N 1025 C 1026 C 1027 C 1028 C 1029 C 1030 C 1031 h 1032 C	CG2 CD1 N CA C C C C C B	ILE ILE VAL VAL VAL	A A	138	19.620				
1023 C 1024 N 1025 C 1026 C 1027 C 1028 C 1029 C 1030 C 1031 N 1032 C	CDI N CA C D CB	VAL VAL VAL	Α			27.294	-7.992	1.00	7135
1024 N 1025 C 1026 C 1027 C 1028 C 1029 C 1030 C 1031 N	CA CCB	VAL VAL VAL	Α	130					
1025 C 1026 C 1027 C 1028 C 1029 C 1030 C 1031 N	CA C D CB	VAL VAL		127	20.169	26.936	-2.869	1.00	19.63
1026 C 1027 C 1028 C 1029 C 1030 C 1031 h	CB	VAL		139	20.091	25.787	-2.011	1.00	19.91
1027 C 1028 C 1029 C 1030 C 1031 h	O CB		A	139	20.157	24.438	-2.666	1.00	20.52
1028 C 1029 C 1030 C 1031 h 1032 C	СВ		A	139	20.631	23.510	-1.962	1.00	23.00
1029 C 1030 C 1031 M 1032 C		VAL	Ā	139	18.802	25.907	-1.153	1.00	19.95
1030 C 1031 I 1032 C	::G1 +		Â	139	18.110	24.594	-0.875	1.00	20.14
1031 I 1032 C		VAL		139	19.171	26.598	0.161	1.00	20.44
1032	CG2	VAL	<u> </u>		19.684	24.204	-3.870	1.00	19.62
	N	ASN	<u> </u>	140	19.595	22.851	-4.407	1.00	20.62
1033 (CA	ASN	Α	140		22.390	-5.143	1.00	22.05
	<u> </u>	ASN	Α	140	20.832	21.205	-5.505	1.00	22.79
1034	0	ASN	A	140	20.998			1.00	20.75
1035	CB	ASN	Α	140	18.333	22.766	-5.279	1.00	21.68
1036	CG	ASN	Α	140	18.373	23.691	-6.475		22.22
1037	ODI	ASN	Α	140	18.428	24.917	-6.348	1.00	21.47
1038	ND2	ASN	Α	140	18.366	23.136	-7.680	1.00	
1039	N	MET	Α	141	21.844	23.243	-5.265	1.00	22.68
	CA	MET	Α	141	23.058	22.907	-6.003	1.00	22.86
	c	MET	Α	141	23.939	21.864	-5.363	1.00	23.14
	ō	MET	Α	141	24.860	21.356	-6.043	1.00	23.70
	СВ	MET	Α	141	23.793	24.197	-6.361	1.00	23.57
	CG	MET	A	141	22.939	25.084	-7.273	1.00	24.80
	SD	MET	A	141	22.306	24.187	-8.701	1.00	26.52
	CE	MET	A	141	23.795	23.997	-9.681	1.00	25.92
		VAL	A	142	23.717	21.457	-4.114	1.00	22.25
	<u>N</u>	VAL	Ā	142	24.512	20.395	-3.526	1.00	22.45
	CA		A	142	24.079	19.083	-4.204	1.00	22.89
	<u>c</u>	VAL	A	142	24.896	18.297	-4.674	1.00	22.97
	0	VAL		142	24.360	20.211	-2.019	1.00	23.14
	СВ	VAL	A	142	25.179	19.008	-1.546	1.00	22.56
	CG1	VAL	A		24.799	21.460	-1.269	1.00	24.17
	CG2	VAL	Α	142	22.756	18.911	-4.309	1.00	22.65
	N	ALA	Α	143		17.712	-4.972	1.00	21.73
	CA	ALA	Α	143	22.230		-6.474	1.00	21.76
1056	C	ALA	Α	143	22.517	17.765	-7.096	1.00	20.55
1057	0	ALA	Α	143	22.745	16.729		1.00	20.45
1058	CB	ALA	Α	143	20.755	17.536	-4.701		22.30
1059	N	GLY	Α	144	22.521	18.971	-7.035	1.00	23.35
1060	CA	GLY	Α	144	22.787	19.154	-8.455	1.00	
	С	GLY	Α	144	24.162	18.611	-8.800	1.00	25.42
	0	GLY	Α	144	24.296	17.682	-9.596	1.00	25.76
	N	HIS	Α	145	25.196	19.154	-8.144	1.00	26.63
1064	CA	HIS	A	145	26.554	18.700	-8.407	1.00	26.89
1065	C	HIS	Α	145	26.729	17.227	-8.086	1.00	28.15
1066	0	HIS	A	145	27.448	16.535	-8.832	1.00	30.31
1067	СВ	HIS	A	145	27.585	19.534	-7.650	1.00	26.46
	CG	HIS	A	145	27.805	20.892	-8.244	1.00	26.84
1068		HIS	A	145	27.292	22.047	-7.675	1.00	27.40
1069	NDI	HIS	A	145	28.472	21.290	-9.348	1.00	26.01
1070	CD2		A	145	27.648	23.093	-8.405	1.00	26.74
1071	CEI	HIS	A	145	28.366	22.655	-9.424	1.00	25.68
1072	NE2	HIS		146	26.131	16.715	-7.008	1.00	27.39
1073	N	LEU	<u> </u>		26.354	15.300	-6.698	1.00	27.60
1074	CA	LEU	A	146	25.747	14.423	-7.779	1.00	27.47
1075	С	LEU	Α	146		13.496	-8.264	1.00	27.20
1076	0	LEU	Α	146	26.404		-5.309	1.00	28.44
1077	CB	LEU	Α	146	25.858	14.921	-4.170	1.00	28.92
1078	CG	LEU	Α	146	26.876	15.053			28.98
1079	CDI	LEU	A	146	26.181	15.129	-2.814	1.00	
1080	CD2	LEU	A	146	27.861	13.895	-4.189	1.00	28.98
1081	N	THR	A	147	24.508	14.709	-8.180	1.00	27.23
1081	CA	THR	A	147	23.882	13.907	-9.228	1.00	27.05
	C	THR	A	147	24.791	13.868	-10.457	1.00	28.80
1083		THR	A	147	25.146	12.771	-10.910	1.00	30.40
1084	O		A	147	22.496	14.423	-9.619	1.00	25.46
1085	CB	THR		147	22.616	15.783	-10.043	1.00	25.22
1086	OGI	THR	A		21.525	14.349	-8.457	1.00	24.87
1087	CG2	THR	A	147		15.019	-10.977	1.00	28.90
1088	N	ILE	A	148	25.193	1 1,017	-10.717	1	

					26.106	15.077	-12.110	1.00	29.46
1089	CA	ILE	Α	148	27.356	14.247	-11.854	1.00	30.29
1090	С	ILE	A	148	27.645	13.327	-12.620	1.00	30.71
1091		ILE	Α	148	26.522	16.527	-12.426	1.00	29.60
1092	CB	ILE	Α	148	25.279	17.399	-12.625	1.00	28.38
1093	CG1	ILE	A A	148	27.434	16.568	-13.644	1.00	29.51
1094	CG2	ILE	A	148	25.560	18.880	-12.562	1.00	27.09
1095	CD1	ILE	Ā	149	28.092	14.530	-10.789	1.00	31.24
1096	N	MET	Ā	149	29.290	13.793	-10.437	1.00	32.79
1097	CA	MET	A	149	29.123	12.277	-10.514	1.00	32.64
1098	Ç	MET	Ā	149	30.014	11.601	-11.042	1.00	33.82
1099	O CP	MET	A	149	29.743	14.124	-9.017	1.00	35.34
1100	CB		A	149	30.335	15.489	-8.763	1.00	37.46
1101	CG	MET	A	149	31.040	15.582	-7.096	1.00	39.92
1102	SD	MET	A	149	32.783	15.753	-7.480	1.00	39.57
1103	CE N	TYR	A	150	28.089	11.691	-9.929	1.00	31.98
1104	CA	TYR	A	150	27.938	10.243	-9.929	1.00	32.50
1105	C	TYR	A	150	26.979	9.745	-10.996	1.00	32.78
1106	0	TYR	A	150	26.625	8.561	-11.031	1.00	32.62
1107	СВ	TYR	A	150	27.487	9.741	-8.543	1.00	32.88
1108	CG	TYR	A	150	28.616	9.791	-7.531	1.00	33.65
1109	CDI	TYR	Ā	150	28.787	10.878	-6.689	1.00	33.91
1111	CD2	TYR	Ā	150	29.523	8.745	-7.442	1.00	34.07
1111	CEI	TYR	A	150	29.824	10.921	-5.775	1.00	34.19
1113	CE2	TYR	A	150	30.562	8.780	-6.533	1.00	34.79
1113	CZ	TYR	A	150	30.712	9.871	-5.702	1.00	34.49
1115	OH	TYR	A	150	31.754	9.899	-4.809	1.00	34.71
1116	N	GLY	Α	151	26.504	10.638	-11.857	1.00	32.74
1117	CA	GLY	A	151	25.539	10.272	-12.881	1.00	33.16
1118	C	GLY	Α	151	24.236	9.746	-12.295	1.00	33.99
1119	ō	GLY	A	151	23.721	8.729	-12.764	1.00	33.51
1120	N	LEU	A	152	23.684	10.448	-11.306	1.00	34.49
1121	CA	LEU	Α	152	22.410	10.038	-10.710	1.00	35.95
1122	C	LEU	A	152	21.234	10.598	-11.501	1.00	36.26
1123	0	LEU	A	152	21.235	11.778	-11.880	1.00	36.43
1124	СВ	LEU	Α	152	22.350	10.461	-9.241	1.00	36.93
1125	CG	LEU	A	152	23.622	10.233	-8.413	1.00	37.72
1126	CDI	LEU	Α	152	23.500	10.893	-7.044	1.00	38.07 37.08
1127	CD2	LEU	Α	152	23.921	8.752	-8.251	1.00	35.94
1128	N	ARG	Α	153	20.282	9.734	-11.869	1.00	35.63
1129	CA	ARG	A	153	19.153	10.166	-12.686	1.00	33.77
1130	С	ARG	Α	153	17.825	9.995	-11.954	1.00	33.81
1131	0	ARG	A	153	16.778	10.303	-12.533	1.00	37.46
1132	CB	ARG	Α	153	19.085	9.447	-14.033	1.00	39.69
1133	CG	ARG	A	153	20.399	9.116	-14.690 -16.176	1.00	41.60
1134	CD	ARG	A	153	20.431	9.337	-16.922	1.00	44.39
1135	NE	ARG	A	153	19.403	8.616	-17.887	1.00	45.81
1136	cz	ARG	A	153	18.686	9.211	-17.867	1.00	46.89
1137	NHI	ARG	A	153	18.912	8.573	-18.571	1.00	45.33
1138	NH2	ARG	A	153	17.756	9.525	-10.711	1.00	30.89
1139	N	GLY	A	154	17.858	9.388	-9.976	1.00	29.41
1140	CA	GLY	I A	154		10.755	-9.479	1.00	28.32
1141	C	GLY	_ A	154	16.126 16.662	11.805	-9.842	1.00	27.72
1142	0	GLY	A	154	15.114	10.743	-8.622	1.00	27.50
1143	N	PRO	A	155	14.569	11.943	-8.024	1.00	27.96
1144	CA	PRO	A	155	15.587	12.845	-7.363	1.00	28.74
1145	<u>c</u>	PRO		155	16.486	12.456	-6.620	1.00	28.70
1146	0	PRO	 ^ -	155	13.558	11.412	-7.002	1.00	27.50
1147	CB	PRO	<u> </u>	155	13.139	10.097	-7.577	1.00	26.81
1148	CC	PRO	<u> </u>	155	14.397	9.522	-8.175	1.00	26.49
1149	CD	PRO	A	155	15.428	14.144	-7.570	1.00	30.55
1150	N	SER	A	156	16.307	15.171	-7.057	1.00	31.21
1151	CA	SER	A	156		16.270	-6.329	1.00	31.29
1152	С	SER	Α	156	15.549	17.240	-6.995	1.00	32.20
1153	0	SER	_ A	156	15.151	15.840	-8.265	1.00	32.95
1154	CB	SER	A	156	17.001	15.560	-8.281	1.00	36.38
1155	OG	SER	I A	156	15.342	16.183	-5.026	1.00	30.79
1156	N	ILE	A	157	10.342	10.103			

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1157	CA	ILE	Α	157	14.683	17.270	-4.316	1.00	30.48
1158	C	ILE	A	157	15.620	17.914	-3.290	00.1	29.11
1159	ō	ILE	A	157	16.697	17.404	-3.002	1.00	29.37
1160	СВ	ILE	A	157	13.403	16.871	-3.567	1.00	31.29
1161	CGI	ILE	A	157	13.573	15.532	-2.850	1.00	31.57
	CG2	ILE	A	157	12.213	16.868	-4.511	1.00	30.63
1162	CDI	ILE	A	157	12.682	15.412	-1.625	1.00	31.50
1163			A	158	15.176	19.043	-2.753	1.00	27.18
1164	N	SER		158	15.892	19.794	-1.739	1.00	25.03
1165	CA	SER	A	158	14.893	20.515	-0.823	1.00	23.56
1166	<u>C</u>	SER	A		14.893	21.451	-1.244	1.00	23.34
1167	0	SER	Α	158		20.827	-2.322	1.00	25.63
1168	CB	SER	A	158	16.836			1.00	27.19
1169	OG	SER	A	158	17.772	20.304	-3.231		22.08
1170	N	ILE	A	159	14.791	20.079	0.421	1.00	
1171	CA	ILE	Α	159	13.877	20.732	1.364	1.00	21.08
1172	C	ILE	Α	159	14.610	21.800	2.162	1.00	21.52
1173	0	ILE	A	159	15.714	21.582	2.690	1.00	22.88
1174	СВ	ILE	A	159	13.225	19.698	2.295	1.00	19.94
1175	CG1	ILE	Α	159	12.349	18.764	1.451	1.00	18.45
1176	CG2	ILE	Α	159	12.423	20.370	3.386	1.00	19.41
1177	CDI	ILE	Α	159	11.674	17.668	2.231	1.00	18.07
1178	N N	ALA	Α	160	14.032	22.986	2.213	1.00	20.71
1179	CA	ALA	A	160	14.620	24.115	2.917	1.00	20.75
1180	C	ALA	A	160	13.679	24.596	4.021	1.00	21.65
1181	0	ALA	A	160	12.925	25.547	3.818	1.00	21.95
	СВ	ALA	A	160	14.891	25.245	1.943	1.00	21.36
1182	N	THR	A	161	13.742	23.921	5.166	1.00	20.97
1183		THR	Ā	161	12.891	24.251	6.299	1.00	20.26
1184	CA			161	13.702	24.702	7.504	1.00	20.52
1185	C	THR	A	161	13.595	24.136	8.594	1.00	20.22
1186	0	THR	A		12.021	23.032	6.676	1.00	19.65
1187	СВ	THR	A	161		21.838	6.532	1.00	17.83
1188	OGI	THR	Α	161	12.783	22.936	5.759	1.00	19.91
1189	CG2	THR	A	161	10.807		7.284	1.00	20.21
1190	N	ALA	A	162	14.588	25.679			19.96
1191	CA	ALA	Α	162	15.388	26.216	8.382	1.00	
1192	С	ALA	A	162	16.121	25.080	9.083	1.00	21.41
1193	0	ALA	Α	162	16.612	24.164	8.414	1.00	21.12
1194	СВ	ALA	A	162	14.479	26.948	9.353	1.00	19.07
1195	N	CYS	Α	163	16.122	25.066	10.415	1.00	21.82
1196	1 4 4		T .	163	16.785		11.185	1.00	
	CA	CYS	A	103		24.038			23.27
1197			A	163	16.148	22.662	11.143	1.00	22.15
1197	CA C	CYS						1.00 1.00	22.15 21.45
1198	CA C O	CYS CYS	A	163	16.148	22.662	11.143	1.00	22.15 21.45 24.71
1198 1199	CA C O CB	CYS CYS CYS	A A A	163 163 163	16.148 16.667	22.662 21.756	11.143	1.00 1.00	22.15 21.45 24.71 28.93
1198 1199 1200	CA C O CB SG	CYS CYS CYS CYS	A A A	163 163	16.148 16.667 16.880	22.662 21.756 24.441	11.143 11.814 12.673	1.00 1.00 1.00	22.15 21.45 24.71
1198 1199 1200 1201	CA C O CB SG N	CYS CYS CYS CYS THR	A A A A	163 163 163 163 164	16.148 16.667 16.880 17.913	22.662 21.756 24.441 25.911	11.143 11.814 12.673 12.915	1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93
1198 1199 1200 1201 1202	CA C O CB SG N CA	CYS CYS CYS CYS THR THR	A A A A	163 163 163 163 164 164	16.148 16.667 16.880 17.913 15.037	22.662 21.756 24.441 25.911 22.488	11.143 11.814 12.673 12.915 10.446	1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76
1198 1199 1200 1201 1202 1203	CA C O CB SG N CA C	CYS CYS CYS CYS THR THR	A A A A A	163 163 163 163 164 164	16.148 16.667 16.880 17.913 15.037 14.453 14.888	22.662 21.756 24.441 25.911 22.488 21.156	11.143 11.814 12.673 12.915 10.446 10.329	1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16
1198 1199 1200 1201 1202 1203 1204	CA C O CB SG N CA C	CYS CYS CYS CYS THR THR THR	A A A A A A	163 163 163 163 164 164 164 164	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840	1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59
1198 1199 1200 1201 1202 1203 1204 1205	CA C O CB SG N CA C C	CYS CYS CYS THR THR THR THR THR	A A A A A A	163 163 163 163 164 164 164 164 164	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433	1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83
1198 1199 1200 1201 1202 1203 1204 1205 1206	CA C O CB SG N CA C C O CB	CYS CYS CYS THR THR THR THR THR THR	A A A A A A	163 163 163 163 164 164 164 164 164 164	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207	CA C O CB SG N CA C O CB CB CC C C C C C C C C C C C C C	CYS CYS CYS THR THR THR THR THR THR THR THR THR	A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 164	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78 21.06 20.38
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208	CA C O CB SG N CA C C O CB CC O CB OG1 CG2 N	CYS CYS CYS THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 164 164	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78 21.06 20.38 21.25
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208	CA C C O CB SG N CA C C O CB OG1 CG2 N CA	CYS CYS CYS THR THR THR THR THR THR THR THR SER SER	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 164 164 165	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78 21.06 20.38 21.25 21.35
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209	CA C O CB SG N CA C C O CB OGI CG2 N CA C C	CYS CYS CYS THR THR THR THR THR THR THR THR SER SER SER	A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 164 165 165	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 21.06 20.38 21.25 21.35 21.35
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210	CA	CYS CYS CYS THR THR THR THR THR THR THR SER SER SER	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 164 165 165	16.148 16.667 16.880 17.913 15.037 14.453 14.488 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.25 21.35
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209	CA C O CB SG N CA C C O CB OGI CG2 N CA C C	CYS CYS CYS THR THR THR THR THR THR THR SER SER SER SER	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 164 165 165 165	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 15.513 15.984 16.609 16.155 17.007	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.265	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.57 21.53 20.98
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210	CA	CYS CYS CYS THR THR THR THR THR THR THR SER SER SER	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 165 165 165	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155 17.007	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809 23.066	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.265 6.071	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.57 21.53 20.98 21.82
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212	CA C O CB SG N CA C O CB OGI CG2 N CA C O CB OGI CG2 N CA C C O CB	CYS CYS CYS THR THR THR THR THR THR THR SER SER SER SER	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 164 165 165 165	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155 17.007 16.371 17.618	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809 23.066 19.286	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.265 6.071 7.774	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.57 21.53 20.98 21.82
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213	CA	CYS CYS CYS THR THR THR THR THR THR SER SER SER SER SER	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 165 165 165	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155 17.007	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809 23.066 19.286 18.020	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.265 6.071 7.774 7.925	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.53 20.98 21.82 22.48 22.79
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215	CA	CYS CYS CYS CYS THR THR THR THR THR THR SER SER SER SER SER SER	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 165 165 165 165 165	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155 17.007 16.371 17.618	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809 23.066 19.286 18.020 16.830	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.235 6.265 6.071 7.774 7.925 8.069	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.57 21.53 20.98 21.82 22.48 22.79 22.94
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216	CA C O CB SG N CA C O CB O CB O CB O CB O CB O CG2 N CA C O CB O CA CC O CB O CA CC O CA CC O CA CC CC	CYS CYS CYS THR THR THR THR THR THR SER SER SER SER SER SER GLY GLY	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 165 165 165 165 165	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155 17.007 16.371 17.618 18.315	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809 23.066 19.286 18.020	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.265 6.071 7.774 7.925 8.069 7.409	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.57 21.53 20.98 21.82 22.48 22.79 22.94 22.55
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217	CA	CYS CYS CYS THR THR THR THR THR THR SER SER SER SER SER SER GLY GLY GLY	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 165 165 165 165 165 165	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155 17.007 16.371 17.618 18.315	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809 23.066 19.286 18.020 16.830	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.235 6.265 6.071 7.774 7.925 8.069	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.57 21.53 20.94 22.48 22.79 22.94 22.55 23.72
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218	CA C O CB SG N CA C O CB O CB O CB O CB O CB O CCB O O CCB O O N	CYS CYS CYS THR THR THR THR THR THR SER SER SER SER SER SER SER GLY GLY GLY VAL	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 165 165 165 165 165 165	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155 17.007 16.371 17.618 18.315 17.388 17.567	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809 23.066 19.286 18.020 16.830 15.809	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.265 6.071 7.774 7.925 8.069 7.409	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.57 21.53 20.98 21.82 22.48 22.79 22.94 22.55
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218	CA C O CB SG N CA C O CB O CB O CB O CB O CCB CCB O CCB O CCB CCB O CCB CCB O CCB CCB O CCB CCB CCB O CCB CCB O CCB CCB CCB O CCB CCB CCB CCB O CCB	CYS CYS CYS THR THR THR THR THR THR SER SER SER SER SER SER SER SER SER SE	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 165 165 165 165 165 165 165 165	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155 17.007 16.371 17.618 18.315 17.388 17.567 16.444	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809 23.066 19.286 18.020 16.830 15.809 16.936	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.235 6.265 6.071 7.774 7.925 8.069 7.409 9.004	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.57 21.53 20.94 22.48 22.79 22.94 22.55 23.72
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220	CA	CYS CYS CYS CYS THR THR THR THR THR THR SER SER SER SER SER SER SER SUB SER SER SER SER SER SER SER SER SER SER	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 165 165 165 165 165 165 165 165 166 166	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155 17.007 16.371 17.618 18.315 17.388 17.567 16.444 15.506 14.558	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809 23.066 19.286 19.286 19.286 15.809 16.936 15.848 15.638	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.265 6.071 7.774 7.925 8.069 7.409 9.004 9.271 8.109	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.57 21.53 20.98 21.82 22.48 22.24 22.55 23.72 24.29
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221	CA C O CB SG N CA C O CB OGI CG2 N CA C O CB OGI CG2 N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O O O O O O O O O	CYS CYS CYS CYS THR THR THR THR THR THR THR SER SER SER SER SUB SER SUB SUB SUB SUB SUB SUB SUB SUB SUB SUB	A A A A A A A A A A A A A A A A A A A	163 163 163 163 163 164 164 164 164 164 165 165 165 165 165 165 166 166 166 166	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155 17.007 16.371 17.618 18.315 17.388 17.567 16.444 15.506 14.558 14.389	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809 23.066 19.286 18.020 16.830 15.848 15.638 14.509	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.265 6.071 7.774 7.925 8.069 7.409 9.004 9.271 8.109 7.627	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 21.16 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.57 21.53 20.98 21.82 22.48 22.79 22.94 22.55 23.72 24.29 24.54
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222	CA C O CB SG N CA C O CB OGI CG2 N CA CC O CB OGI CG2 N CA CC O CB OG N CA CC O CB OG N CA CC O CB OG N CA CC O CB OG N CA CC O CB OG N CA CC O CB OG N CA CC O CB OG N CA CC O CB OG N CA CC O CB OG N CA CC O CB OG CB OG CB CG CG CG CG CG CG C	CYS CYS CYS CYS THR THR THR THR THR THR THR SER SER SER SER SER SUB SER SUB SER SUB SER SUB SUB SUB SUB SUB SUB SUB SUB SUB SUB	A A A A A A A A A A A A A A A A A A A	163 163 163 163 164 164 164 164 164 164 165 165 165 165 165 165 166 166	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155 17.007 16.371 17.618 18.315 17.388 17.567 16.444 15.506 14.558 14.389 14.767	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809 23.066 19.286 18.020 16.830 15.809 16.936 15.848 15.638 14.509 16.094	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.265 6.071 7.774 7.925 8.069 7.409 9.004 9.271 8.109 7.627 10.592	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.57 21.53 20.98 21.82 22.48 22.79 22.94 22.55 23.72 24.29 24.54 26.12
1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221	CA C O CB SG N CA C O CB OGI CG2 N CA C O CB OGI CG2 N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O O O O O O O O O	CYS CYS CYS CYS THR THR THR THR THR THR THR SER SER SER SER SUB SER SUB SUB SUB SUB SUB SUB SUB SUB SUB SUB	A A A A A A A A A A A A A A A A A A A	163 163 163 163 163 164 164 164 164 164 165 165 165 165 165 165 166 166 166 166	16.148 16.667 16.880 17.913 15.037 14.453 14.888 14.714 12.927 12.549 12.396 15.513 15.984 16.609 16.155 17.007 16.371 17.618 18.315 17.388 17.567 16.444 15.506 14.558 14.389	22.662 21.756 24.441 25.911 22.488 21.156 20.517 19.323 21.172 22.030 19.772 21.302 20.830 19.451 18.544 21.809 23.066 19.286 18.020 16.830 15.848 15.638 14.509	11.143 11.814 12.673 12.915 10.446 10.329 9.020 8.840 10.433 11.519 10.675 8.153 6.858 6.925 6.235 6.265 6.071 7.774 7.925 8.069 7.409 9.004 9.271 8.109 7.627	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.15 21.45 24.71 28.93 21.76 20.59 20.83 20.78 21.06 20.38 21.25 21.35 21.57 21.57 21.53 20.98 21.82 22.48 22.79 22.94 22.55 23.37 24.29 24.54 26.12 24.57

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1225	N	HIS	Α _	168	13.991	16.711	7.572	1.00	24.23
1226	CA	HIS	A	168	13.060	16.594	6.455	1.00	23.72
1227	С	HIS	A	168	13.671	15.915	5.243	1.00	23.37
1228	0	HIS	Α	168	13.003	15.055	4.637	1.00	24.37
1229	СВ	HIS	A	168	12.494	17.964	6.099	1.00	23.34
1230	CG	HIS	A	168	11.429	18.457	7.027	1.00	23.31
1231	NDI	HIS	Ā	168	11.102	19.797	7.120	1.00	22.78
1232	CD2	HIS	A	168	10.613	17.813	7.897	1.00	22.79
1232	CEI	HIS	Ā	168	10.138	19.951	8.014	1.00	22.01
		·		168	9.823	18.768	8.491	1.00	21.89
1234	NE2	HIS	A	169	14.898	16.225	4.857	1.00	22.74
1235	N	ASN				15.616	3.663	1.00	23.00
1236	CA	ASN	A	169	15.502				+
1237	C	ASN	Α	169	15.656	14.107	3.822	1.00	23.66
1238	0	ASN	Α	169	15.361	13.299	2.934	1.00	23.83
1239	СВ	ASN	Α	169	16.826	16.291	3.343	1.00	22.66
1240	CG	ASN	A	169	16.710	17.635	2.662	1.00	22.82
1241	ODI	ASN	Α	169	16.286	17.729	1.503	1.00	23.41
1242	ND2	ASN	Α	169	17.107	18.717	3.315	1.00	21.89
1243	N	ILE	A	170	16.075	13.671	5.005	1.00	23.82
1244	CA	ILE	A	170	16.178	12.241	5.309	1.00	23.18
1245	С	ILE	Α	170	14.784	11.637	5.275	1.00	22.89
1246	0	ILE	Α	170	14.532	10.695	4.507	1.00	22.87
1247	СВ	ILE	A	170	16.917	12.046	6.638	1.00	23.01
1248	CGI	ILE	A	170	18.322	12.677	6.508	1.00	22.40
1249	CG2	ILE	A	170	17.081	10.591	7.028	1.00	23.08
1250	CDI	ILE	A	170	18.989	12.935	7.825	1.00	22.78
1251	N N	GLY	A	171	13.831	12.245	5.971	1.00	21.80
1252	CA	GLY	A	171	12.455	11.775	5.969	1.00	22.22
1253	C	GLY	A	171	11.908	11.490	4.579	1.00	22.83
	0		A	171	11.509	10.362	4.256	1.00	22.22
1254		GLY		172	11.918	12.497	3.702	1.00	23.21
1255	N	HIS	A	172	11.335	12.357	2.369	1.00	22.97
1256	CA	HIS	Α				1.464	1.00	23.20
1257	С	HIS	A	172	12.167	11.493			
1258	0	HIS	Α	172	11.668	10.866	0.520 1.771	1.00	23.49
1259	CB	HIS	A	172	11.036	13.753	1 1.//1	1.00	1 22.55
									
1260	CG	HIS	A	172	9.823	14.271	2.506	1.00	22.55
1260 1261	CG ND1	HIS HIS	A A	172 172	9.823 9.944	14.271 15.054	2.506 3.631	1.00 1.00	22.55 23.32
1260 1261 1262	CG	HIS	A	172 172 172	9.823 9.944 8.513	14.271 15.054 14.044	2.506 3.631 2.327	1.00 1.00 1.00	22.55 23.32 22.72
1260 1261	CG ND1	HIS HIS HIS	A A	172 172 172 172	9.823 9.944 8.513 8.734	14.271 15.054 14.044 15.323	2.506 3.631 2.327 4.101	1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47
1260 1261 1262	CG ND1 CD2	HIS HIS HIS	A A A	172 172 172	9.823 9.944 8.513	14.271 15.054 14.044 15.323 14.717	2.506 3.631 2.327 4.101 3.329	1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29
1260 1261 1262 1263	CG ND1 CD2 CE1	HIS HIS HIS	A A A	172 172 172 172 172 172 173	9.823 9.944 8.513 8.734	14.271 15.054 14.044 15.323	2.506 3.631 2.327 4.101	1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72
1260 1261 1262 1263 1264 1265	CG ND1 CD2 CEI NE2 N	HIS HIS HIS HIS	A A A A	172 172 172 172 172	9.823 9.944 8.513 8.734 7.844	14.271 15.054 14.044 15.323 14.717	2.506 3.631 2.327 4.101 3.329	1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29
1260 1261 1262 1263 1264 1265 1266	CG ND1 CD2 CE1 NE2 N	HIS HIS HIS HIS ALA	A A A A	172 172 172 172 172 172 173	9.823 9.944 8.513 8.734 7.844 13.468	14.271 15.054 14.044 15.323 14.717 11.384	2.506 3.631 2.327 4.101 3.329 1.760	1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72
1260 1261 1262 1263 1264 1265 1266 1267	CG ND1 CD2 CE1 NE2 N CA	HIS HIS HIS HIS ALA	A A A A A	172 172 172 172 172 172 173 173	9.823 9.944 8.513 8.734 7.844 13.468 14.295	14.271 15.054 14.044 15.323 14.717 11.384 10.496	2.506 3.631 2.327 4.101 3.329 1.760 0.929	1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93
1260 1261 1262 1263 1264 1265 1266 1267	CG ND1 CD2 CE1 NE2 N CA C	HIS HIS HIS HIS ALA ALA ALA	A A A A A A	172 172 172 172 172 172 173 173	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148	1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269	CG ND1 CD2 CE1 NE2 N CA C O	HIS HIS HIS HIS ALA ALA ALA ALA	A A A A A A	172 172 172 172 172 173 173 173 173 173	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270	CG ND1 CD2 CE1 NE2 N CA C O CB N	HIS HIS HIS HIS ALA ALA ALA ALA ALA	A A A A A A A A A	172 172 172 172 172 172 173 173 173 173	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270	CG ND1 CD2 CEI NE2 N CA C C CB N CA C C CB N CA	HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA	A A A A A A A A	172 172 172 172 172 173 173 173 173 173 173 174	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271	CG ND1 CD2 CEI NE2 N CA C O CB N CA C	HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 173 174 174	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272	CG ND1 CD2 CEI NE2 N CA C CB N CA C CB O CB O CB O CA C	HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 173 174 174 174	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274	CG ND1 CD2 CEI NE2 N CA C O CB N CA C C CB C C C C C C C C C C C C C C C	HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 173 174 174 174 174	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274	CG ND1 CD2 CEI NE2 N CA C O CB N CA C C O CB N CA C O CB N	HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 172 173 173 173 173 173 174 174 174 174 174 174	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24 26.16
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274	CG ND1 CD2 CEI NE2 N N CA C O CB N CA C C O CB N CA C C C C C C C C C C C C C C C C C	HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 172 173 173 173 173 173 174 174 174 174 174 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.326 11.326 12.865 10.748 9.394	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.24 24.24 26.16 25.10
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276	CG ND1 CD2 CE1 NE2 N CA C C O CB N CA C C O CB N CA C C C C C C C C C C C C C C C C C	HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 172 173 173 173 173 174 174 174 174 174 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24 26.16 25.10 27.12
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276	CG ND1 CD2 CEI NE2 N CA C C O CB N CA C C O CB N CA C O CB C O CB C O C C O C C O C C O C C O C C O C C O C C O C O C C O	HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481 9.021	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24 24.26 25.10 27.12 28.18
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277	CG ND1 CD2 CEI NE2 N CA C C O CB N CA C C O CB CB O CB CC C C C C C C C C C C	HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481 9.021 8.673	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24 26.16 25.10 27.12 28.18 23.30
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280	CG ND1 CD2 CEI NE2 N CA C O CB N CA C C O CB CB CC O CB CC CB CC CC CC CC CC CC CC CC CC CC	HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24 26.16 25.10 27.12 28.18 23.30 23.23
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281	CG ND1 CD2 CEI NE2 N CA C O CB N CA C O CB CB CC O CB CC CC CC CC CC CC CC CC CC CC CC CC	HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348 7.206	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443 9.684 8.809	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507 3.977	1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24 26.16 25.10 27.12 28.18 23.30 23.23 23.33
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281	CG ND1 CD2 CEI NE2 N CA C O CB N CA C C O CB CB CC O CB CC CB CC CC CC CC CC CC CC CC CC CC	HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348 7.206 6.465	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443 9.684 8.809 9.357	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507 3.977 5.099	1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24 26.10 27.12 28.18 23.30 23.23 23.38
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281	CG ND1 CD2 CEI NE2 N CA C O CB N CA C O CB CB CC O CB CC CC CC CC CC CC CC CC CC CC CC CC	HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348 7.206 6.465 6.601	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443 9.684 8.809 9.357 8.994	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507 3.977 5.099 6.376	1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.93 26.24 24.24 26.16 25.10 27.12 28.18 23.30 23.33 23.33 24.63 24.63
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281	CG ND1 CD2 CEI NE2 N CA C C C C C C C C C C C C C C C C C	HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348 7.206 6.465	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443 9.684 8.809 9.357 8.994 8.054	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507 3.977 5.099 6.376 6.731	1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.95 26.24 24.24 26.16 25.10 27.12 28.18 23.30 23.23 23.33 24.63 24.63 24.63
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282	CG ND1 CD2 CEI NE2 N CA C C O CB N CA C O CB CB N CA C C O CB CB CC C C C C C C C C C C C C	HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348 7.206 6.465 6.601	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443 9.684 8.809 9.357 8.994	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507 3.977 5.099 6.376	1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.16 25.10 27.12 28.18 23.30 23.23 23.30 23.23 23.30 23.23 23.38 24.63 24.68 24.38
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284	CG ND1 CD2 CEI NE2 N N CA C O CB N CA C O CB CC CC CC CC CC CC CC CC CC CC CC CC	HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175 175 175 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348 7.206 6.465 6.601 7.476	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443 9.684 8.809 9.357 8.994 8.054	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507 3.977 5.099 6.376 6.731	1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.95 26.24 24.24 26.16 25.10 27.12 28.18 23.30 23.23 23.33 24.63 24.63 24.63
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284	CG ND1 CD2 CEI NE2 N CA C O CB N CA C O CB CB N CA C O CB CB CB CG CD N CB CB CG CD N CB N CA C C O CB CB CB CB CB CB CB CB CB CB CB CB CB	HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175 175 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348 7.206 6.465 6.601 7.476 5.855	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443 9.684 8.809 9.357 8.994 8.994 8.054	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507 3.977 5.099 6.376 6.731 7.315	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.16 25.10 27.12 28.18 23.30 23.23 23.30 23.23 23.30 23.23 23.38 24.63 24.68 24.38
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286	CG ND1 CD2 CEI NE2 N CA C O CB N CA C O CB CB N CA C O CB N CA C O CB N CA C O CB N CA C O CB N CA C O CB N CA C O CB N CA C O CB N CA C O CB N CA C O CB CB CA C O CB CB CA C O CB CB CA C C O CB CB CA C C O CB CA C C O CB CA C C O CB CA C C O CB CA C C O CB CA C C O CB CA C C C C C C C C C C C C C C C C C	HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175 175 175 175 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348 7.206 6.465 6.601 7.476 5.855 10.257	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443 9.684 8.809 9.357 8.994 8.054 9.564 8.703	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507 3.977 5.099 6.376 6.731 7.315 -0.472	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24 26.16 25.10 27.12 28.18 23.30 23.23 23.33 23.83 24.96 25.35 26.24 24.24 26.16 25.10 27.12 28.18 23.30 23.23 23.83 23.83 24.96 25.35 26.24 26.16 27.12 28.18 23.30 23.23 23.83 23.83 24.96 25.35 26.24 26.16 27.12 28.18 23.30 23.23 23.83 24.96 26.35 26.24 26.16 27.12 28.18 23.30 23.23 23.88 24.96 26.35 26.24 26.16 27.12 28.18 23.30 23.23 23.88 24.63 24.68 24.38 24.68 24.38 24.68
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288	CG ND1 CD2 CEI NE2 N CA C O CB N CA C O CB N CA C C O CB N CA C O CB N CA C C O CB N CA C C O CB N CA C C O CB N CA C C O CB CB CG CD NE CA C C C C C C C C C C C C C C C C C C	HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175 175 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.326 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348 7.206 6.465 6.601 7.476 5.855 10.257 10.475	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443 9.684 8.809 9.357 8.994 8.054 9.564 8.703 8.452 6.991	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507 3.977 5.099 6.376 6.731 7.315 -0.472 -1.893	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24 26.16 25.10 27.12 28.18 23.30 23.23 23.38 24.66 25.10 27.12 28.18 23.30 23.23 23.38 24.66 25.10 27.12 28.18 23.30 23.23 23.38 24.66 25.10 27.12 28.18 23.30 23.23 23.38 24.66 25.10 27.12 28.18 23.30 23.23 23.38 24.66 27.19 28.06
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288	CG ND1 CD2 CE1 NE2 N CA C O CB N CA C O CB N CA C O CB N CA C O CB N CA C O CB N CA C O CB CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC CD NE CD CD NE CD CD CD CD CD CD CD CD CD CD CD CD CD	HIS HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175 175 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348 7.206 6.465 6.601 7.476 5.855 10.257 10.475 10.169	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443 9.684 8.809 9.357 8.994 8.054 9.564 8.703 8.452 6.991 6.352	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507 3.977 5.099 6.731 7.315 -0.472 -1.893 -2.141 -2.971	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24 26.16 25.10 27.12 28.18 23.30 23.23 23.38 24.63 24.63 24.63 24.63 24.63 24.63 24.63 24.63 24.63 24.63 24.63 24.63 24.63 24.63 24.75 25.10 27.12 28.18 23.30 23.23 23.38 24.63 25.64 26.74 27.19 28.06 29.01
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290	CG ND1 CD2 CEI NE2 N CA C O CB N CA C O CB CB N CA C C O CB N CA C C O CB CB CC O CB CC CD CB CC CC CD CC CC CC CC CC CC CC CC CC CC	HIS HIS HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 173 173 173 173 173 173 174 174 174 174 175 175 175 175 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348 7.206 6.465 6.601 7.476 5.855 10.257 10.475 10.815 10.169 11.568	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443 9.684 8.809 9.357 8.994 8.054 9.564 8.703 8.452 6.991 6.352 9.372	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507 3.977 5.099 6.376 6.731 7.315 -0.472 -1.893 -2.141 -2.971 -2.460	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24 26.16 25.10 27.12 28.18 23.30 23.23 23.38 24.63 24.68 24.68 24.24 26.16 25.10 27.12 28.18 23.30 23.23 23.88 24.63 24.63 24.68 24.68 24.68 24.68 24.89 27.46 27.19 28.06 29.01 28.06 29.01 26.47
1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1288 1288 1289	CG ND1 CD2 CE1 NE2 N CA C O CB N CA C O CB N CA C O CB N CA C O CB N CA C O CB N CA C O CB CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC O CB CC CD NE CD CD NE CD CD CD CD CD CD CD CD CD CD CD CD CD	HIS HIS HIS HIS HIS HIS ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	A A A A A A A A A A A A A A A A A A A	172 172 172 172 172 173 173 173 173 173 174 174 174 174 175 175 175 175 175 175 175 175	9.823 9.944 8.513 8.734 7.844 13.468 14.295 13.810 13.592 15.756 13.506 12.985 11.596 11.326 12.865 10.748 9.394 9.481 9.021 8.673 8.348 7.206 6.465 6.601 7.476 5.855 10.257 10.475 10.169	14.271 15.054 14.044 15.323 14.717 11.384 10.496 9.058 8.348 10.702 8.691 7.375 7.165 6.134 7.184 8.179 8.145 7.878 6.838 9.443 9.684 8.809 9.357 8.994 8.054 9.564 8.703 8.452 6.991 6.352	2.506 3.631 2.327 4.101 3.329 1.760 0.929 1.148 0.172 1.222 2.390 2.714 2.100 1.482 4.215 2.291 1.742 0.245 -0.251 2.042 3.507 3.977 5.099 6.731 7.315 -0.472 -1.893 -2.141 -2.971	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.55 23.32 22.72 23.47 23.29 23.72 23.93 23.83 22.86 23.75 23.88 24.96 26.35 26.24 24.24 26.16 25.10 27.12 28.18 23.30 23.23 23.38 24.63 24.63 24.63 24.63 24.63 24.63 24.63 24.63 24.63 24.63 24.75 25.10 27.12 28.18 23.30 23.23 23.38 24.63 25.64 27.19 28.88 27.46 27.19 28.80 27.46 27.19 28.06 29.01

08/110										
1293	CDI	ILE	Α	176	11.966	11.826	-3.111	1.00	26.82	
1294	N N	ILE	Α	177	11.823	6.460	-1.463	1.00	28.98	
1295	CA	ILE	A	177	12.249	5.076	-1.652	1.00	29.01	
1296	С	ILE	Α	177	11.104	4.111	-1.387	1.00	29.49	
1297	0	ILE	A	177	10.698	3.373	-2.290	1.00	30.21	
1298	CB	ILE	Α	177	13.483	4.745	-0.802	1.00	28.06	
1299	CG1	ILE	Α	177	14.718	5.428	-1.400	1.00	27.28 28.49	
1300	CG2	ILE	Α	177	13.712	3.245	-0.714 -0.490	1.00	26.54	
1301	CDI	ILE	Α	177	15.924	5.483	-0.232	1.00	29.79	
1302	N	ALA	A	178	9.318	4.215 3.437	0.141	1.00	30.54	
1303	CA	ALA	Α	178	8.251	3.453	-0.942	1.00	33.08	
1304	C	ALA	A	178	7.640	2.422	-1.259	1.00	35.55	
1305	0	ALA	A	178	8.744	3.986	1.448	1.00	28.37	
1306	CB	ALA	A	179	7.975	4.621	-1.514	1.00	33.83	
1307	CA	TYR	A	179	6.967	4.771	-2.546	1.00	33.95	
1308	C	TYR	Â	179	7.321	3.984	-3.798	1.00	33.95	
1310	0	TYR	Ā	179	6.399	3.530	-4.495	1.00	35.65	
1311	СВ	TYR	A	179	6.779	6.254	-2.886	1.00	34.35	
1312	CG	TYR	A	179	5.600	6.559	-3.781	1.00	34.82	
1313	CD1	TYR	A	179	4.368	6.895	-3.228	1.00	35.00	
1314	CD2	TYR	Α	179	5.715	6.518	-5.167	1.00	34.57	
1315	CEI	TYR	Α	179	3.283	7.174	-4.034	1.00	35.41	
1316	CE2	TYR	Α	179	4.636	6.794	-5.976	1.00	34.96	
1317	CZ	TYR	Α	179	3.423	7.119	-5.404	1.00	35.48	
1318	ОН	TYR	A	179	2.338	7.399	-6.205	1.00	36.21	
1319	N	GLY	Α	180	8.590	3.866	-4.149	1.00	33.30 33.89	
1320	CA	GLY	Α	180	8.991	3.165	-5.356	1.00	34.58	
1321	C	GLY	A	180	9.629	4.044	-6.418 -7.461	1.00	34.05	
1322	0	GLY	A	180	10.091	3.541 5.342	-6.136	1.00	34.25	
1323	N	ASP	A	181	9.796	6.259	-7.105	1.00	34.14	
1324	CA	ASP	<u> A</u>	181	11.898	6.108	-7.189	1.00	34.08	
1325	<u>c</u>	ASP	A	181	12.531	6.521	-8.164	1.00	32.76	
1326	O CB	ASP	A	181	10.023	7.712	-6.773	1.00	34.55	
1327	CG	ASP	Â	181	8.564	8.032	-7.022	1.00	35.35	
1329	ODI	ASP	A	181	7.996	8.921	-6.347	1.00	35.15	
1330	OD2	ASP	A	181	7.975	7.377	-7.915	1.00	36.69	
1331	N	ALA	A	182	12.486	5.534	-6.145	1.00	34.99	
1332	CA	ALA	A	182	13.926	5.339	-6.075	1.00	35.64	
1333	С	ALA	Α	182	14.284	4.134	-5.210	1.00	36.12	
1334	0	ALA	Α	182	13.482	3.675	-4.395	1.00	36.49	
1335	СВ	ALA	Α	182	14.594	6.592	-5.527	1.00	34.86	
1336	N	ASP	Α	183	15.496	3.630	-5.413	1.00	37.16 37.73	
1337	CA	ASP	A	183	15.993	2.489	-4.644	1.00	37.03	
1338	C	ASP	A	183	17.068	2.946	-3.002	1.00	37.13	
1339	0	ASP	A	183	17.237	1.416	-2.373	1.00	38.47	
1340	CB	ASP	A	183	16.558	0.660	-6.299	1.00	39.28	
1341	CG	ASP	A	183	15.650	0.298	-7.477	1.00	39.31	
1342	OD1	ASP	A	183	14.382	0.452	-5.672	1.00	39.27	
1343	OD2	VAL VAL	A	184	17.870	3.907	-4.112	1.00	35.93	
1344	CA	VAL	A	184	18.906	4.529	-3.313	1.00	34.94	
1345	C	VAL	A	184	18.726	6.051	-3.354	1.00	34.49	
1346	10	VAL	A	184	18.388	6.611	-4.397	1.00	34.37	
1348	СВ	VAL	A	184	20.329	4.191	-3.783	1.00	34.92	
1349	CGI	VAL	A	184	21.361	4.899	-2.904	1.00	34.98	
1350	CG2	VAL	A	184	20.598	2.699	-3.774	1.00	34.24	
1351	N	MET	Α	185	18.909	6.700	-2.208	1.00	33.85	
1352	CA	MET	Α	185	18.808	8.150	-2.102	1.00	32.05	
1353	C	MET	A	185	19.974	8.691	-1.280	1.00	30.49	
1354	0	MET	Α	185	20.234	8.138	-0.210	1.00	31.31	
1355	СВ	MET	Α	185	17.503	8.560	-1.421	1.00	32.72	
1356	CG	MET	A	185	16.248	8.454	-2.273	1.00	32.82	
1357	SD	MET	A	185	16.312	9.494	-3.751	1.00	32.53	
1358	CE	MET	A	185	15.762	11.052	-3.035	1.00	33.06 29.07	
1359	N	VAL	A	186	20.675	9.701	-1.759	1.00	27.75	
1360	CA	VAL	<u> </u>	186	21.696	10.370	-0.952	1	,,	

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1361	l c	VAL	A	186	20.996	11.510	-0.206	1.00	26.95
1362	0	VAL	A	186	20.426	12.381	-0.880	1.00	28.34
1363	СВ	VAL	Α	186	22.846	10.975	-1.755	1.00	27.97
1364	CG1	VAL	A	186	24.006	11.307	-0.815	1.00	27.63
1365	CG2	VAL	Α	186	23.324	10.065	-2.869	1.00	28.61
1366	N	ALA	Α	187	20.997	11.526	1.114	1.00	24.74
1367	CA	ALA	Α	187	20.259	12.588	1.793	1.00	24.07
1368	С	ALA	Α	187	21.001	13.252	2.926	1.00	24.02
1369	0	ALA	Α	187	21.836	12.664	3.607	1.00	24.74
1370	СВ	ALA	Α	187	18.942	12.013	2.304	1.00	23.14
1371	N	GLY	Α	188	20.682	14.533	3.152	1.00	23.56
1372	CA	GLY	Α	188	21.322	15.219	4.282	1.00	22.93
1373	C	GLY	Α	188	21.198	16.719	4.107	1.00	21.97
1374	0	GLY	A	188	20.352	17.169	3.340	1.00	21.88
1375	N	GLY	Α	189	22.084	17.456	4.773	1.00	21.27
1376	CA	GLY	A	189	22.026	18.915	4.623	1.00	20.91
1377	<u> </u>	GLY	Α	189	23.423	19.489	4.781	1.00	20.13
1378	0	GLY	Α	189	24.305	18.799	5.280	1.00	20.88
1379	I N	ALA	Α	190	23.609	20.703	4.295	1.00	19.89
1380	CA	ALA	Α	190	24.906	21.374	4.431	1.00	19.71
1381	C	ALA	A	190	24.625	22.835	4.771	1.00	19.51
1382	0	ALA	A	190	25.739	23.366	3.172	1.00	19.83
1383	CB	ALA	A			23.431	5.617	1.00	19.12
1384	N	GLU	A	191 191	25.446 25.249	24.825	5.981	1.00	19.12
1385	CA	GLU	A	191	26.585	25.504	6.260	1.00	18.78
1386	0	GLU	A .	191	27.522	24.903	6.772	1.00	18.20
1387	CB	GLU	A	191	24.313	24.973	7.186	1.00	18.97
1388	CG	GLU	A	191	23.760	26.391	7.100	1.00	20.04
1390	CD	GLU	Ā	191	22.420	26.607	6.662	1.00	20.10
1391	OEI	GLU	Ā	191	22.312	27.479	5.775	1.00	20.35
1392	OE2	GLU	A	191	21.423	25.921	6.984	1.00	19.18
1393	N	LYS	A	192	26.650	26.784	5.942	1.00	18.47
1394	CA	LYS	A	192	27.831	27.586	6.205	1.00	18.91
1395	C	LYS	A	192	27.392	29.047	6.334	1.00	19.50
1396	0	LYS	A	192	27.558	29.853	5.424	1.00	18.72
1397	СВ	LYS	Α	192	28.882	27.398	5.129	1.00	20.21
1398	CG	LYS	A	192	30.311	27.620	5.611	1.00	21.28
1399	CD	LYS	Α	192	30.626	29.114	5.727	1.00	20.99
1400	CE	LYS	A	192	32.101	29.304	6.035	1.00	21.43
1401	NZ	LYS	A	192	32.369	30.319	7.082	1.00	20.87
1402	N	ALA	Α	193	26.769	29.332	7.486	1.00	19.33
1403	CA	ALA	A	193	26.218	30.651	7.745	1.00	18.76
1404	С	ALA	Α	193	27.125	31.471	8.633	1.00	20.38
1405	0	ALA	Α	193	26.765	32.618	8.971	1.00	22.59
1406	CB	ALA	Α	193	24.820	30.556	8.351	1.00	16.60
1407	N	SER	Α	194	28.319	31.002	8.993	1.00	20.01
1408	CA	SER	Α	194	29.212	31.816	9.822	1.00	19.73
1409	<u>c</u>	SER	A	194	29.827	32.946	9.010	1.00	19.70 19.94
1410	0	SER	A	194	31.018	32.969 30.953	8.692	1.00	20.42
1411	CB	SER	A	194	30.324	30.953	9.359	1.00	20.42
1412	OG	SER	A	194	31.139 29.005	33.897	8.600	1.00	19.16
1413	N CA	THR	A	195	29.003	35.036	7.795	1.00	19.16
1414	CA	THR	A	195 195	28.812	36.284	8.470	1.00	19.65
1415	C	THR	A		27.838	36.181	9.227	1.00	21.37
1416	CP	THR	A	195 195	28.757	34.967	6.382	1.00	20.32
1417	CB	THR	A	195	27.366	35.354	6.457	1.00	21.29
1418	OGI	THR	A	195	28.843	33.585	5.772	1.00	19.40
1419	CG2	PRO		195	29.327	37.442	8.125	1.00	19.54
1420	N CA	PRO	A	196	28.846	38.693	8.699	1.00	19.97
1421	CA	PRO	A	196	27.341	38.754	8.825	1.00	19.83
1423	0	PRO	A	196	26.816	38.911	9.924	1.00	20.28
1424	CB	PRO	A	196	29.417	39.747	7.753	1.00	19.47
1424	CG	PRO	A	196	30.666	39.142	7.224	1.00	17.90
1426	CD	PRO	A	196	30.447	37.658	7.185	1.00	18.39
1427	N	LEU	A	197	26.601	38.575	7.744	1.00	21.07
1427	CA	LEU	A	197	25.156	38.631	7.691	1.00	21.15
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1429	С	LEU	Α	197	24.471	37.549	8.504	1.00	22.25
1430	Ō	LEU	Α	197	23.391	37.781	9.057	1.00	22.33
1431	СВ	LEU	Α	197	24.696	38.550	6.235	1.00	20.97
1432	CG	LEU	A	197	23.530	39.417	5.781	1.00	20.00
1433	CDI	LEU	A	197	23.781	40.878	6.083	1.00	19.91
1434	CD2	LEU	A	197	23.283	39.197	4.290	1.00	19.18
1435	N	GLY	A	198	25.069	36.366	8.579	1.00	22.88
1436	CA	GLY	A	198	24.470	35.281	9.356	1.00	23.85
1437	C	GLY	A	198	24.739	35.506	10.839	1.00	26.11
1438	ō	GLY	A	198	23.874	35.251	11.681	1.00	26.78
1439	N	VAL	A	199	25.956	35.969	11.160	1.00	26.93
1440	CA	VAL	A	199	26.250	36.222	12.587	1.00	27.85
1441	C	VAL	A	199	25.514	37.487	13.008	1.00	27.33
1442	0	VAL	A	199	24.683	37.455	13.926	1.00	27.42
1443	CB	VAL	A	199	27.746	36.267	12.877	1.00	28.42
1444	CGI	VAL	A	199	28.068	36.897	14.220	1.00	27.28
1445	CG2	VAL	Ā	199	28.327	34.844	12.826	1.00	27.96
1446	N	GLY	Ā	200	25.717	38.569	12.268	1.00	25.86
1447	CA	GLY	Ā	200	24.993	39.806	12.549	1.00	25.88
1448	c	GLY	A	200	23.493	39.535	12.646	1.00	25.97
1448	0	GLY	A	200	22.870	39.851	13.652	1.00	26.80
1450	N	GLY	A	200	22.885	38.974	11.615	1.00	25.48
1451	CA	GLY	A	201	21.478	38.693	11.546	1.00	25.31
1451	C	GLY	A	201	20.889	37.981	12.738	1.00	25.85
1453	0	GLY	A	201	19.849	38.418	13.259	1.00	25.85
1454	N	PHE	A	202	21.504	36.891	13.204	1.00	25.57
1455	CA	PHE	A	202	20.975	36.198	14.378	1.00	26.27
	C	PHE	Ā	202	21.237	37.041	15.627	1.00	27.19
1456		PHE	Ā	202	20.509	36.959	16.608	1.00	28.35
1457	CB	÷-	A	202	21.580	34.811	14.551	1.00	26.19
1458		PHE		202	20.943	33.711	13.752	1.00	25.12
1459	CG CD1	PHE	A	202	21.643	33.073	12.738	1.00	24.21
1460		PHE		202	19.632	33.332	13.996	1.00	24.42
1461	CD2 CE1		A	202	21.051	32.076	11.991	1.00	23.44
1462	CE2	PHE		202	19.038	32.320	13.267	1.00	24.39
1463	CZ CZ	PHE	A	202	19.752	31.695	12.257	1.00	23.79
1464	N N	PHE GLY	A	203	22.305	37.834	15.611	1.00	28.07
1465	CA	GLY	A	203	22.617	38.752	16.703	1.00	28.36
1467	C		A	203	21.489	39.776	16.825	1.00	29.38
1468	0	GLY	A	203	20.966	40.052	17.911	1.00	30.32
1469	N		A	204	21.089	40.312	15.677	1.00	28.66
1470	CA	ALA	A	204	20.027	41.289	15.581	1.00	28.43
1470	C			204	18.768	40.815	16.294		28.66
1471	0	ALA	A	204	18.131	41.610	16.982	1.00	29.26
		ALA	A	204	19.743	41.609		1.00	28.52
1473	CB	ALA	A	205	18.435	39.539	14.117	1.00	29.22
	N C4	ALA	A	205	17.292	38.917	16.821	1.00	29.54
1475	CA	ALA	A	205	17.532	38.582	18.293		30.76
1476	C	ALA				38.153		1.00	
1477	CB	ALA	A	205	16.604	37.619	16.106	1.00	28.27
1478	CB	ALA		206	18.779	38.677		1.00	
1479	N CA	ARG	A	206	19.159	38.399	18.735	1.00	31.45
1480	CA	ARG	A			36.919	20.110	1.00	
1481	C	ARG	A	206	19.060 18.810	36.532	20.439	1.00	32.08 32.74
1482	O	ARG	A	206			21.575	1.00	
1483	CB	ARG	A	206	18.299	39.212	21.090	1.00	33.69
1484	CG	ARG	A	206	18.709	40.680	21.147	1.00	35.43
1485	CD	ARG	A	206	18.168	41.326	22.416	1.00	37.32
1486	NE	ARG	A	206	18.714	40.674	23.601	1.00	38.75
1487	CZ	ARG	A	206	18.015	40.193	24.619	1.00	39.28
1488	NHI	ARG	A	206	18.676	39.617	25.623	1.00	40.09
1489	NH2	ARG	A	206	16.692	40.273	24.653	1.00	39.00
1490	N	ALA	A	207	19.351	36.086	19.459	1.00	31.89
1491	CA	ALA	Α	207	19.203	34.651	19.541	1.00	30.97
1492	C	ALA	Α	207	20.506	33.926	19.828	1.00	29.87
1493	0	ALA	A	207	20.485	32.707	20.028	1.00	30.21
1494	CB	ALA	A	207	18.657	34.153	18.183	1.00	30.74
									
1495	N CA	LEU	A	208	21.630	34.631 33.963	19.784 19.961	1.00	28.48

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1497	С	LEU	A	208	23.516	34.215	21.336	1.00	29.38
1498	ō	LEU	Α	208	23.357	35.310	21.857	1.00	29.54
		LEU	A	208	23.948	34.424	18.927	1.00	28.64
1499	CB			208	23.703	33.986	17.481	1.00	28.52
1500	CG	LEU	Α			34.659	16.558	1.00	27.66
1501	CDI	LEU	Α	208	24.704			1.00	28.39
1502	CD2	LEU	Α	208	23.763	32.470	17.372		
1503	N	SER	A	209	24.285	33.229	21.813	1.00	28.67
1504	CA	SER	A	209	24.999	33.395	23.072	1.00	27.73
1505	C	SER	Α	209	26.090	34.453	22.903	1.00	27.76
1506	ō	SER	A	209	26.493	34.797	21.800	1.00	26.99
			Ā	209	25.577	32.082	23.574	1.00	27.07
1507	СВ	SER			26.481	32.291	24.653	1.00	26.06
1508	OG	SER	Α	209				1.00	29.62
1509	N	THR	A	210	26.482	35.063	24.008		
1510	CA	THR	A	210	27.378	36.244	23.938	1.00	31.15
1511	С	THR	Α	210	28.562	36.040	24.849	1.00	31.71
1512	0	THR	Α	210	29.417	36.890	25.097	1.00	30.55
1513	СВ	THR	A	210	26.495	37.458	24.255	1.00	31.98
		THR	A	210	26.238	38.187	23.037	1.00	32.30
1514	OGI			210	27.039	38.393	25.302	1.00	32.74
1515	CG2	THR	Α			34.788	25.303	1.00	32.86
1516	N	ARG	Α	211	28.724				
1517	CA	ARG	A	211	29.800	34.414	26.204	1.00	34.98
1518	C	ARG	Α	211	31.142	34.331	25.505	1.00	35.34
1519	0	ARG	Α	211	31.736	33.260	25.391	1.00	35.29
1520	CB	ARG	Α	211	29.440	33.084	26.873	1.00	36.96
1521	CG	ARG	A	211	30.276	32.715	28.078	1.00	38.63
	CD	ARG	Â	211	29.809	31.412	28.695	1.00	40.89
1522				211	28.812	31.617	29.748	1.00	43.18
1523	NE	ARG	A				29.556	1.00	44.37
1524	CZ	ARG	A	211	27.497	31.538			44.55
1525	NH1_	ARG	Α	211	27.003	31.259	28.347	1.00	
1526	NH2	ARG	Α	211	26.676	31.740	30.581	1.00	44.44
1527	N	ASN	A	212	31.697	35.456	25.076	1.00	36.69
1528	CA	ASN	Α	212	32.967	35.519	24.386	1.00	38.57
1529	c	ASN	A	212	34.172	35.285	25.283	1.00	40.78
		ASN	A	212	35.272	35.059	24.758	1.00	41.25
1530	0			212	33.125	36.873	23.686	1.00	38.25
1531	СВ	ASN	A			37.286	22.873	1.00	38.78
1532	CG	ASN	A	212	31.919		22.126	1.00	38.93
1533	ODI	ASN	Α	212	31.326	36.500			38.26
1534	ND2	ASN	Α	212	31.525	38.552	23.005	1.00	
1535	N	ASP	A	213	34.018	35.328	26.601	1.00	43.10
1536	CA	ASP	Α	213	35.130	35.122	27.525	1.00	45.40
1537	С	ASP	A	213	35.433	33.638	27.704	1.00	45.34
1538	0	ASP	A	213	36.540	33.257	28.080	1.00	44.99
			Ā	213	34.896	35.821	28.858	1.00	47.21
1539	СВ	ASP				35.405	29.603	1.00	49.21
1540	CG	ASP	A	213	33.652		29.072	1.00	50.18
1541	ODI	ASP	Α	213	32.526	35.562			50.24
1542	OD2	ASP	Α	213	33.789	34.906	30.749	1.00	
1543	N	ASN	A	214	34.465	32.787	27.385	1.00	45.48
1544	CA	ASN	Α	214	34.649	31.342	27.426	1.00	45.22
1545	C	ASN	Α	214	33.840	30.670	26.316	1.00	43.77
1546	10	ASN	A	214	32.803	30.045	26.541	1.00	43.50
		ASN	A	214	34.289	30.771	28.789	1.00	46.06
1547	CB				34.875	29.392	29.028	1.00	46.69
1548	CG	ASN	A	214		29.005	30.174	1.00	47.37
1549	ODI	ASN	A	214	35.114				46.96
1550	ND2	ASN	Α	214	35.114	28.633	27.966	1.00	
1551	N	PRO	Α	215	34.345	30.763	25.089	1.00	42.47
1552	CA	PRO	Α	215	33.653	30.271	23.911	1.00	41.85
1553	C	PRO	A	215	33.196	28.836	23.992	1.00	40.97
	10	PRO	A	215	32.078	28.509	23.586	1.00	40.92
1554				215	34.665	30.467	22.785	1.00	41.51
1555	CB	PRO	A			31.597	23.234	1.00	41.27
1556	CG	PRO	A	215	35.519			+	41.71
1557	CD	PRO	A	215	35.569	31.517	24.730	1.00	
1558	N	GLN	A	216	34.006	27.940	24.542	1.00	40.36
1559	CA	GLN	A	216	33.689	26.536	24.662	1.00	40.03
1560	c	GLN	A	216	32.649	26.243	25.736	1.00	38.52
	10	GLN	A	216	32.207	25.093	25.842	1.00	38.43
1561				216	34.948	25.709	24.953	1.00	42.11
1562	CB	GLN	A			25.871	23.963	1.00	44.52
1563	CG	GLN	A	216	36.081		_	1.00	46.34
1564	CD	GLN	A	216	36.980	27.057	24.241	1.00	70.54

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1565	OE1	GLN	Α	216	36.910	27.707	25.293	1.00	47.64
1566	NE2	GLN	Α	216	37.842	27.386	23.279	1.00	46.74
			A	217	32.268	27.225	26.536	1.00	36.20
1567	N	ALA		217	31.303	27.017	27.608	1.00	34.50
1568	CA	ALA	A			27.715	27.287	1.00	33.15
1569	С	ALA	Α	217	29.987		28.001	1.00	32.25
1570	0	ALA	Α	217	28.997	27.578			
1571	СВ	ALA	Α	217	31.880	27.557	28.914	1.00	34.14
1572	N	ALA	Α	218	29.996	28.465	26.196	1.00	32.07
1573	CA	ALA	Α	218	28.856	29.223	25.721	1.00	31.43
_	C	ALA	A	218	27.613	28.361	25.529	1.00	31.15
1574			A	218	26.539	28.709	26.018	1.00	31.19
1575	0	ALA			29.199	29.923	24.407	1.00	30.76
1576	СВ	ALA	Α	218			24.795	1.00	30.96
1577	N	SER	Α	219	27.771	27.274		1.00	31.23
1578	CA	SER	Α	219	26.679	26.362	24.487		
1579	C	SER	Α	219	26.385	25.476	25.684	1.00	31.50
1580	0	SER	Α	219	27.187	24.600	26.008	1.00	30.63
1581	СВ	SER	A	219	27.062	25.535	23.257	1.00	31.35
			A	219	25.973	24.795	22.745	1.00	31.74
1582	OG	SER		220	25.240	25.687	26.343	1.00	32.52
1583	N	ARG	A			24.859	27.519	1.00	33.84
1584	CA	ARG	Α	220	24.930		27.638	1.00	34.32
1585	C	ARG	Α	220	23.463	24.496			34.48
1586	О	ARG	Α	220	22.727	24.975	28.505	1.00	
1587	СВ	ARG	A	220	25.426	25.582	28.776	1.00	33.63
1588	CG	ARG	A	220	25.147	27.069	28.796	1.00	34.24
1589	CD	ARG	A	220	25.618	27.735	30.070	1.00	35.88
			Ä	220	27.023	27.517	30.346	1.00	37.22
1590	NE	ARG	A	220	27.541	26.815	31.336	1.00	37.40
1591	CZ	ARG	+		26.758	26.220	32.219	1.00	37.56
1592	NHI	ARG	A	220			31.450	1.00	38.33
1593	NH2	ARG	Α	220	28.863	26.708			34.72
1594	N	PRO	Α	221	22.988	23.595	26.782	1.00	
1595	CA	PRO	A	221	21.610	23.177	26.771	1.00	35.12
1596	С	PRO	Α	221	21.070	22.782	28.127	1.00	36.33
1597	0	PRO	Α	221	21.575	21.905	28.822	1.00	36.73
1598	CB	PRO	A	221	21.556	22.019	25.790	1.00	34.23
				221	22.935	21.743	25.355	1.00	34.39
1599	CG	PRO	A	221	23.771	22.941	25.702	1.00	34.79
1600	CD	PRO	Α			23.430	28.537	1.00	37.81
1601	N	TRP	A	222	19.982			1.00	38.35
1602	CA	TRP	A	222	19.253	23.204	29.764		
1603	C	TRP	Α	222	19.870	23.783	31.021	1.00	40.00
1604	0	TRP	Α	222	19.244	23.803	32.087	1.00	40.39
1605	СВ	TRP	A	222	18.989	21.704	29.960	1.00	37.21
	CG	TRP	A	222	18.017	21.170	28.940	1.00	36.16
1606			A	222	16.705	21.496	28.811	1.00	35.54
1607	CDI	TRP			18.304	20.213	27.913	1.00	35.39
1608	CD2	TRP	A	222		20.796	27.769	1.00	35.19
1609	NEI	TRP	A	222	16.151				35.06
1610	CE2	TRP		222	17.111	20.004	27.203	1.00	
1611	CE3	TRP	Α	222	19.453	19.511	27.533	1.00	35.46
1612	CZ2	TRP	Α	222	17.030	19.127	26.123	1.00	35.14
1613	CZ3	TRP	Α	222	19.370	18.638	26.460	1.00	35.39
1614	CH2	TRP	A	222	18.165	18.456	25.770	1.00	35.07
		ASP	A	223	21.097	24.269	30.942	1.00	41.44
1615	N			223	21.747	24.939	32.048	1.00	42.07
1616	CA	ASP	A		21.001	26.228	32.378	1.00	43.35
1617		ASP	A	223				1.00	42.75
1618	0	ASP	Α	223	20.401	26.868	31.510		41.91
1619	СВ	ASP	A	223	23.201	25.239	31.680	1.00	
1620	CG	ASP	Α	223	23.978	25.779	32.868	1.00	42.02
1621	ODI	ASP	Α	223	24.089	27.022	32.965	1.00	41.30
	OD2	ASP	A	223	24.459	24.948	33.668	1.00	41.89
1622				224	21.083	26.633	33.640	1.00	44.97
1623	I N	LYS	A			27.832	34,149	1.00	45.85
1624	CA	LYS	A	224	20.452			1.00	45.90
1625	С	LYS	Α	224	21.037	29.102	33.551	+	
1626	0	LYS	Α	224	20.369	30.142	33.550	1.00	45.61
1627	СВ	LYS	Α	224	20.612	27.872	35.684	1.00	47.34
1628	CG	LYS	A	224	22.069	28.062	36.100	1.00	49.04
	CD	LYS	A	224	22.200	28.799	37.419	1.00	50.57
1629				224	22.329	30.304	37.224	1.00	51.48
1630	CE	LYS	A		23.739	30.756	37.419	1.00	52.02
1631	NZ	LYS	1 A	224		29.047	33.071	1.00	45.79
1632	N	GLU	A	225	22.281	23.047	1,25.071	1	

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1633	CA	GLU	Α	225	22.912	30.222	32.498	1.00	45.61
1634	C	GLU	Α	225	22.934	30.253	30.980	1.00	43.95
1635	Ö	GLU	A	225	23.804	30.950	30.441	1.00	43.88
1636	СВ	GLU	Α	225	24.348	30.358	33.009	1.00	47.52
1637	CG	GLU	Α	225	24.465	30.295	34.527	1.00	49.63
1638	CD	GLU	Α	225	25.931	30.264	34.930	1.00	51.27
1639	OEI	GLU	Α	225	26.658	31.171	34.461	1.00	52.70
1640	OE2	GLU	Α	225	26.323	29.336	35.663	1.00	52.08
1641	N	ARG	Α	226	22.030	29.558	30.316	1.00	42.31
1642	CA	ARG	A	226	21.854	29.621	28.870	1.00	40.38
1643	С	ARG	Α	226	21.618	31.059	28.409	1.00	38.31
1644	0	ARG	Α	226	20.851	31.766	29.076	1.00	38.79
1645	СВ	ARG	Α	226	20.595	28.839	28.463	1.00	41.11
1646	CG	ARG	A	226	20.733	27.358	28.276	1.00	44.07
1647	CD	ARG	A	226	19.386	26.645	28.252	1.00	46.50
1648	NE	ARG	A	226	18.414	27.281	29.116	1.00	47.73
1649	CZ	ARG	Α	226	17.366	26.721	29.696	1.00	48.79
1650	NHI	ARG	A	226	17.078	25.440	29.522	1.00	48.31
1651	NH2	ARG	Α	226	16.571	27.446	30.475 27.286	1.00	36.03
1652	N	ASP	A	227	22.171	31.480	26.791	1.00	33.63
1653	CA	ASP	Α	227	21.891	32.830 32.838	25.285	1.00	32.31
1654	С	ASP	A	227	21.674	33.919	24.700	1.00	32.59
1655	0	ASP	A	227	21.554	33.825	27.192	1.00	32.84
1656	СВ	ASP	A	227	22.967	33.499	26.637	1.00	33.33
1657	CG	ASP	A	227	24.627	32.286	26.529	1.00	34.69
1658	ODI	ASP	A	227	25.120	34.414	26.307	1.00	32.44
1659	OD2	ASP	A	228	21.550	31.672	24.654	1.00	30.62
1660	N	GLY	A	228	21.366	31.677	23.188	1.00	28.87
1661	CA	GLY	A	228	22.125	30.526	22.548	1.00	27.72
1662	C	GLY	A	228	23.023	29.955	23.172	1.00	28.88
1663	0	PHE	Â	229	21.754	30.147	21.330	1.00	25.72
1664	N CA	PHE	Ā	229	22.412	29.027	20.666	1.00	22.79
1665	C	PHE	A	229	23.772	29.488	20.159	1.00	22.85
1666 1667	0	PHE	Ā	229	24.077	30.672	20.162	1.00	21.95
1668	СВ	PHE	A	229	21.550	28.413	19.591	1.00	21.43
1669	CG	PHE	A	229	21.327	29.142	18.316	1.00	20.46
1670	CDI	PHE	A	229	22.236	29.069	17.275	1.00	19.91
1671	CD2	PHE	A	229	20.191	29.920	18.131	1.00	20.66
1672	CE1	PHE	A	229	22.025	29.759	16.087	1.00	19.15
1673	CE2	PHE	A	229	19.969	30.605	16.944	1.00	19.34
1674	CZ	PHE	A	229	20.894	30.517	15.928	1.00	18.75
1675	N	VAL	Α	230	24.597	28.526	19.795	1.00	24.11
1676	CA	VAL	Α	230	25.926	28.768	19.252	1.00	24.59
1677	С	VAL	A	230	25.972	28.253	17.810	1.00	24.91
1678	0	VAL	Α	230	25.540	27.150	17.497	1.00	23.86
1679	СВ	VAL	Α	230	27.024	28.118	20.106	1.00	24.60
1680	CGI	VAL	Α	230	28.392	28.206	19.448	1.00	23.60
1681	CG2	VAL	A	230	27.076	28.781	16.910	1.00	26.19
1682	N	LEU	I.A	231	26.347	29.141	15.471	1.00	27.19
1683	CA	LEU	A	231	26.347	27.932	15.080	1.00	27.61
1684	С	LEU	<u> </u>	231	27.458		15.608	1.00	27.83
1685	0	LEU	A	231	28.575	30,244	14.786	1.00	27.96
1686	CB	LEU	A	231	26.532	30.468	13.329	1.00	29.21
1687	CG	LEU	A	231	26.207	29.269	12.659	1.00	29.75
1688	CDI	LEU	 ^	231	25.303	31.702	13.176	1.00	29.24
1689	CD2	LEU	A _	231	27.171	27.010	14.159	1.00	26.20
1690	N	GLY	- A	232	28.192	26.067	13.714	1.00	24.72
1691	CA	GLY		232	28.023	25.702	12.248	1.00	23.99
1692	C	GLY		232	26.901	25.451	11.800	1.00	24.18
1693	<u> </u>	GLY	- A	232	29.117	25.550	11.512	1.00	23.28
1694	N	ASP	A	233	29.117	25.134	10.117	1.00	22.60
1695	CA	ASP	A	233	29.340	23.637	9.959	1.00	21.54
1696	C	ASP	A	233	29.988	23.027	10.810	1.00	20.87
1697	10	ASP	 ^	233	30.079	25.883	9.261	1.00	23.15
1698	CB	ASP	A	233	30.103	27.370	9.485	1.00	24.40
1699	CG	ASP	I A	233	29.054	27.994	9.749	1.00	24.44
1700	ODI	ASP	A		1 -2.00				

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1701	OD2	ASP	A	233	31.216	27.933	9.398	1.00	26.06
1702	N	GLY	A	234	28.918	23.080	8.825	1.00	20.29
1703	CA	GLY	Α	234	29.210	21.686	8.549	1.00	21.48
1704	C	GLY	_ A	234	28.252	21.018	7.587	1.00	22.09
1705	0	GLY	A	234	27.397	21.642	6.971	1.00	22.10
1706	N	ALA	A	235	28.367	19.694	7.476	1.00	23.04
1707	CA	ALA	A_	235	27.488	18.924	6.612	1.00	24.26
1708	1 <u>c</u>	ALA	I A	235	27.550	17.452	7.013	1.00	25.10
1709	0	ALA	_ A	235	28.601	16.959	7.413	1.00	25.69
1710	CB	ALA	A	235	27.839	19.064	5.141	1.00	24.12
1711	N CA	GLY	- A	236	26.406	16.810	6.904	1.00	25.31
1713	C	GLY	A	236	26.263	15.399	7.203	1.00	25.96
1714	0	GLY	A	236	25.401	14.764	6.106	1.00	27.84
1715	N	MET	A	237	24.292	15.232	5.828	1.00	28.18
1716	CA	MET	A	237	25.956 25.264	13.732	5.480	1.00	27.94
1717	C	MET	A	237	25.021	11.579	4.412	1.00	28.58
1718	0	MET	A	237	25.840	10.946	5.457	1.00	29.18
1719	СВ	MET	A	237	26.058	13.121	3.111	1.00	30.25
1720	CG	MET	A	237	26.241	14.540	2.584	1.00	29.09
1721	SD	MET	A	237	24.689	15.275	2.005	1.00	30.84
1722	CE	MET	A	237	23.983	13.854	1.197	1.00	32.58
1723	N	LEU	Α	238	23.861	11.059	4.432	1.00	29.03
1724	CA	LEU	Α	238	23.455	9.697	4.647	1.00	28.93
1725	C	LEU	Α	238	23.154	9.058	3.274	1.00	30.08
1726	0	LEU	A	238	22.641	9.736	2.395	1.00	30.53
1727	CB	LEU	A	238	22.174	9.573	5.445	1.00	29.18
1728	CG	LEU	Α	238	21.953	9.963	6.879	1.00	28.28
1729	CDI	LEU	A	238	21.343	8.806	7.674	1.00	28.10
1730	CD2	LEU	A	238	23.203	10.416	7.588	1.00	28.92
1732	CA	VAL	A	239	23.389	7.769	3.139	1.00	31.20
1733	C	VAL	A	239	22.950	7.027	1.966	1.00	31.08
1734	ō	VAL	Â	239	21.801	6.122	2.442	1.00	31.88
1735	СВ	VAL	A	239	24.047	6.189	1.317	1.00	31.48
1736	CGI	VAL	A	239	23.493	5.297	0.207	1.00	30.98
1737	CG2	VAL	A	239	25.150	7.069	0.756	1.00	30.65
1738	N	LEU	A	240	20.614	6.367	1.910	1.00	32.81
1739	CA	LEU	Α	240	19.465	5.539	2.267	1.00	34.06
1740	С	LEU	Α	240	19.197	4.602	1.091	1.00	35.24
1741	0	LEU	Α	240	19.377	5.025	-0.056	1.00	35.94
1742	СВ	LEU	A	240	18.233	6.367	2.568	1.00	34.52
1743	CG	LEU	A	240	18.327	7.391	3.694	1.00	34.89
1744	CDI	LEU	Α	240	17.392	8.562	3.424	1.00	35.01
1745	CD2	LEU	_ A	240	18.007	6.741	5.029	1.00	34.67
1746	N	GLU	A	241	18.858	3.355	1.376	1.00	36.34
1748	CA	GLU	A	241	18.549	2.426	0.288	1.00	37.40
1749	ō	GLU	A	241	17.604	1.337	0.790	1.00	38.22
1750	СВ	GLU	A	241	17.459 19.775	1.156	1.997	1.00	37.42
1751	CG	GLU	A	241	20.414	0.626	-0.376	1.00	37.02
1752	CD	GLU	Ā	241	21.624	0.028	0.198 -0.629	1.00	36.23
1753	OE1	GLU	A	241	22.743	0.616	-0.029	1.00	36.50
1754	OE2	GLU	A	241	21.457	-0.538	-1.624	1.00	36.26 36.05
1755	N	GLU	Α	242	16.839	0.808	-0.161	1.00	39.24
1756	CA	GLU	Α	242	15.825	-0.196	0.151	1.00	40.59
1757	С	GLU	A	242	16.502	-1.471	0.625	1.00	42.13
1758	0	GLU	Α	242	17.499	-1.913	0.049	1.00	42.65
1759	CB	GLU	Α	242	14.947	-0.425	-1.073	1.00	40.67
1760	CG	GLU	Α	242	13.767	-1.365	-0.852	1.00	40.14
1761	CD	GLU	Α	242	14.158	-2.796	-1.182	1.00	40.03
1762	OEI	GLU	Α	242	15.061	-2.964	-2.033	1.00	40.30
1763	OE2	GLU	Α	242	13.583	-3.715	-0.577	1.00	40.12
1764	N	TYR	Α	243	15.985	-2.050	1.688	1.00	44.48
1765	CA	TYR	A	243	16.528	-3.249	2.295	1.00	47.55
1766	C	TYR	A	243	16.969	-4.314	1.312	1.00	49.06
1767	O CP	TYR	A	243	18.165	-4.612	1.194	1.00	48.62
1768	CB	TYR	A	243	15.501	-3.828	3.281	1.00	49.37

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1769	CG	TYR	Α	243	16.082	-4.940	4.129	1.00	51.38
1770	CDI	TYR	A	243	16.964	-4.671	5.162	1.00	51.69
1771	CD2	TYR	Α	243	15.741	-6.264	3.873	1.00	52.26
1772	CEI	TYR	Α	243	17.492	-5.698	5.921	1.00	52.76
1773	CE2	TYR	Α	243	16.261	-7.293	4.635	00.1	52.69
1774	CZ	TYR	Α	243	17.141	-7.004	5.652	1.00	52.88 53.60
1775	ОН	TYR	Α	243	17.668	-8.024	6.409	1.00	50.65
1776	N	GLU	Α	244	16.023	-4.912	0.584	1.00	51.25
1777	CA	GLU_	Α	244	16.323	-5.960	-0.383	1.00	51.58
1778	Ċ	GLU	Α	244	17.448	-5.559 -6.345	-1.325 -1.534	1.00	51.59
1779	0	GLU	Α	244	18.371	-6.361	-1.191	1.00	51.54
1780	СВ	GLU	Α	244	15.091	-6.882	-0.386	1.00	52.35
1781	CG	GLU_	A	244	13.925 14.242	-8.097	0.454	1.00	53.32
1782	CD	GLU	A	244	15.188	-8.845	0.125	1.00	53.91
1783	OEI	GLU	Α	244	13.535	-8.312	1.464	1.00	53.96
1784	OE2	GLU	A	245	17.376	-4.358	-1.889	1.00	52.37
1785	N	HIS	A	245	18.422	-3.872	-2.788	1.00	53.53
1786	CA	HIS	Â	245	19.776	-3.940	-2.079	1.00	54.72
1787	<u>c</u>	HIS	A	245	20.741	-4.460	-2.619	1.00	54.26
1788	CP	HIS	A	245	18.120	-2.454	-3.239	1.00	53.08
1789	CB	HIS	A	245	19.042	-1.894	-4.277	1.00	52.59
1790	NDI	HIS	A	245	20.337	-1.511	-4.003	1.00	52.62
	CD2	HIS	A	245	18.841	-1.610	-5.584	1.00	52.43
1792	CEI	HIS	A	245	20.899	-1.032	-5.0 96	1.00	52.61
1793	NE2	HIS	A	245	20.012	-1.087	-6.075	1.00	52.66
1795	N	ALA	A	246	19.814	-3.419	-0.859	1.00	56.49
1796	CA	ALA	A	246	20.984	-3.410	-0.006	1.00	58.02
1797	C	ALA	Α	246	21.414	-4.832	0.362	1.00	59.33
1798	0	ALA	A	246	22.605	-5.134	0.342	1.00	59.12
1799	СВ	ALA	Α	246	20.685	-2.632	1.276	1.00	57.55
1800	N	LYS	A	247	20.452	-5.691	0.677	1.00	60.88
1801	CA	LYS	Α	247	20.736	-7.079	1.017	1.00	62.53
1802	С	LYS	A	247	21.478	-7.785	-0.112	1.00	63.46
1803	0	LYS	Α	247	22.586	-8.299	0.062	1.00	64.16
1804	CB	LYS	A	247	19.444	-7.828	1.336	1.00	62.93
1805	CG	LYS	Α	247	19.190	-8.093	2.806	1.00	63.75
1806	CD	LYS	A	247	18.323	-9.329	3.008	1.00	64.65
1807	CE	LYS	Α	247	18.834	-10.207	4.137	1.00	65.11
1808	NZ	LYS	Α	247	17.770	-11.078	4.710	1.00	63.98
1809	N	LYS	A	248	20.890	-7.806	-1.300	1.00	64.52
1810	CA	LYS		248	21.459	-8.440	-2.475 -2.808	1.00	64.22
1811	С	LYS	Α	248	22.870	-7.995	-3.305	1.00	64.61
1812	0	LYS	Α	248	23.676	-8.794	-3.673	1.00	65.73
1813	CB	LYS	A	248	20.526	-8.201	-4.997	1.00	67.49
1814	CG	LYS	A	248	21.041	-9.335	-5.847	1.00	68.99
1815	CD	LYS	A	248	19.933	-10.650	-5.279	1.00	69.64
1816	CE	LYS	1 <u>A</u>	248	18.013	-10.943	-5.671	1.00	69.80
1817	NZ NZ	LYS	A	248	23.220	-6.740	-2.582	1.00	63.72
1818	N	ARG	A	249	24.542	-6.222	-2.893	1.00	63.29
1819	CA	ARG		249	25.520	-6.419	-1.743	1.00	62.36
1820	C	ARG	A	249	26.712	-6.136	-1.891	1.00	62.39
1821	O CB	ARG	A	249	24.449	-4.730	-3.260	1.00	63.82
1822	CB CG	ARG	A	249	23.678	-3.920	-2.231	1.00	64.36
1823	CD	ARG	TA -	249	23.874	-2.430	-2.376	1.00	64.71
1824	NE NE	ARG	A	249	25.279	-2.056	-2.335	1.00	64.93
1825	CZ	ARG	A	249	25.762	-0.961	-1.772	1.00	64.91
1827	NHI	ARG	A	249	24.951	-0.101	-1.182	1.00	64.78
1828	NH2	ARG	A	249	27.067	-0.745	-1.812	1.00	65.38
1829	N	GLY	Ā	250	25.040	-6.911	-0.607	1.00	60.87
1830	CA	GLY	Ā	250	25.913	-7.131	0.548	1.00	59.90
1831	c	GLY	A	250	26.469	-5.794	1.037	1.00	58.77
1832	0	GLY	A	250	27.666	-5.532	0.986	1.00	58.78
1833	N	ALA	A	251	25.565	-4.945	1.522	1.00	57.41
1834	CA	ALA	A	251	25.944	-3.621	1.977	1.00	55.66
1835	C	ALA	Α	251	26.096	-3.568	3.491	1.00	54.72
1836	ŏ	ALA	Α	251	25.302	-4.138	4.231	1.00	55.01

					270			1	55.46
1837	СВ	ALA	Α	251	24.901	-2.602	1.531	1.00	55.46
1838	N	LYS	A	252	27.088	-2.814	3.936	1.00	53.10
		LYS	Α	252	27.217	-2.428	5.336	1.00	51.33
1839	CA		A	252	25.891	-1.818	5.792	1.00	49.96
1840	<u></u>	LYS	_		25.612	-0.691	5.346	1.00	50.79
1841	0	LYS	Α	252			5.418	1.00	51.97
1842	CB	LYS	Α	252	28.294	-1.349		1.00	52.61
1843	CG	LYS	Α	252	29.460	-1.544	6.340		
1844	CD	LYS	Α	252	30.208	-0.239	6.593	1.00	53.01
1845	CE	LYS	A	252	30.836	0.346	5.343	1.00	52.98
	NZ	LYS	A	252	32.219	-0.157	5.097	1.00	53.69
1846				253	25.090	-2,482	6.604	1.00	47.12
1847	N	ILE	Α		23.840	-1.881	7.062	1.00	44.71
1848	CA	ILE	Α	253			8.435	1.00	43.36
1849	С	ILE	Α	253	24.020	-1.246		1.00	44.22
1850	0	ILE	Α	253	24.012	-1.935	9.462		
1851	СВ	ILE	A	253	22.674	-2.884	7.110	1.00	45.09
1852	CG1	ILE	A	253	22.284	-3.326	5.694	1.00	44.84
	CG2	ILE	A	253	21.477	-2.282	7.844	1.00	44.25
1853			A	253	20.932	-4.007	5.591	1.00	44.67
1854	CD1	ILE			24.049	0.082	8.495	1.00	41.00
1855	N	TYR	Α	254		0.773	9.772	1.00	38.50
1856	CA	TYR	Α	254	24.201			1.00	37.38
1857	С	TYR	A	254	22.948	0.731	10.628		
1858	0	TYR	Α	254	23.010	0.615	11.853	1.00	38.15
1859	СВ	TYR	A	254	24.571	2.235	9.557	1.00	37.33
1860	CG	TYR	A	254	25.979	2.477	9.071	1.00	36.11
		TYR	A	254	26.250	2.657	7.726	1.00	35.30
1861	CDI		A	254	27.031	2.550	9.972	1.00	35.51
1862	CD2	TYR		254	27.538	2.899	7.292	1.00	35.59
1863	CEI	TYR	Α			2.787	9.545	1.00	34.81
1864	CE2	TYR	A	254	28.322				35.14
1865	CZ	TYR	Α	254	28.567	2.969	8.209	1.00	
1866	ОН	TYR	A	254	29.845	3.209	7.764	1.00	35.01
1867	N	ALA	A	255	21.792	0.886	10.004	1.00	36.44
	CA	ALA	A	255	20.536	0.899	10.748	1.00	35.71
1868		ALA	A	255	19.367	0.917	9.769	1.00	35.68
1869	C			255	19.573	0.959	8.558	1.00	34.91
1870	0	ALA	A		20.481	2.114	11.662	1.00	35.22
1871	CB	ALA	Α	255		0.899	10.321	1.00	36.53
1872	N	GLU		256	18.168			1.00	37.42
1873	CA	GLU	Α	256	16.945	0.951	9.552		
1874	С	GLU	A	256	16.152	2.209	9.902	1.00	37.04
1875	ō	GLU	Α	256	15.941	2.490	11.086	1.00	36.85
1876	СВ	GLU	A	256	16.054	-0.267	9.831	1.00	39.31
		GLU	A	256	15.103	-0.594	8.690	1.00	42.01
1877	CG			256	14.074	-1.643	9.048	1.00	43.86
1878	CD	GLU	A		12.853	-1.395	8.910	1.00	44.65
1879	OEI	GLU	A	256		-2.750	9.478	1.00	45.17
1880	OE2	GLU	A	256	14.479				36.43
1881	N	LEU	Α	257	15.723	2.931	8.874	1.00	
1882	CA	LEU	Α	257	14.882	4.120	9.112	1.00	35.83
1883	C	LEU	Α	257	13.456	3.603	9.292	1.00	35.09
1884	0	LEU	A	257	12.950	2.950	8.368	1.00	35.81
		LEU	- Δ	257	14.990	5.075	7.952	1.00	36.17
1885	CB		+	257	14.474	6.497	8.023	1.00	36.62
1886	CG	LEU	A			6.980	9.428	1.00	36.47
1887	CDI	LEU	Α	257	14.176		7.371	1.00	36.59
1888	CD2	LEU	Α	257	15.503	7.434			
1889	N	VAL	Α	258	12.898	3.663	10.496	1.00	34.38
1890	CA	VAL	Α	258	11.603	3.034	10.719	1.00	34.14
1891	C	VAL	A	258	10.495	4.012	11.049	1.00	33.65
		VAL	Ā	258	9.349	3.561	11.194	1.00	34.38
1892	0			258	11.619	1.965	11.845	1.00	34.54
1893	СВ	VAL	A		12.689	0.913	11.602	1.00	33.95
1894	CG1	VAL	Α	258				1.00	32.70
1895	CG2	VAL	A	258	11.761	2.594	13.219		
1896	N	GLY	Α	259	10.787	5.287	11.243	1.00	33.01
1897	CA	GLY	A	259	9.718	6.223	11.594	1.00	32.64
1898		GLY	A	259	10.094	7.640	11.195	1.00	33.38
. IXUX	C			259	11.260	8.010	11.307	1.00	34.33
	10	GLY	Α		9.104	8.408	10.758	1.00	32.82
1899							1 10.750		,
	N	PHE	A	260			10.242		31 11
1899		PHE PHE	A	260	9.288	9.793	10.342	1.00	31.11
1899 1900 1901	N	_			9.288 8.028	9.793 10.607	10.608	1.00	30.38
1899 1900	N CA	PHE	Α	260	9.288	9.793		1.00	

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1005	CC	PHE	A	260	9.673	11.244	8.289	1.00	30.39
1905	CG CD1	PHE	A	260	10.339	12.272	8.939	1.00	30.56
1906	CD2	PHE	A	260	9.014	11.518	7.103	1.00	30.06
1907		PHE	A	260	10.344	13.552	8.419	1.00	30.43
1908	CEI	PHE	A	260	9.023	12.791	6.566	1.00	29.90
1909	CE2			260	9.687	13.803	7.227	1.00	30.57
1910	CZ	PHE	Α	261	8.141	11.610	11.470	1.00	29.70
1911	N	GLY	A		7.008	12.434	11.837	1.00	28.92
1912	CA	GLY	A	261	7.223	13.919	11.616	1.00	29.15
1913	<u>C</u>	GLY	A	261		14.502	11.927	1.00	28.06
1914	0	GLY	Α	261	8.264	14.568	11.075	1.00	29.65
1915	N	MET	A	262	6.195		10.832	1.00	30.20
1916	CA	MET	Α	262	6.234	16.006	11.596	1.00	30.06
1917	С	MET	Α	262	5.070	16.647		1.00	30.13
1918	0	MET	Α	262	4.076	15.969	11.820	1.00	30.45
1919	СВ	MET	Α	262	6.108	16.345	9.363	1.00	30.83
1920	CG	MET	A	262	7.201	15.870	8.440		33.07
1921	SD	MET	Α	262	6.528	15.370	6.839	1.00	
1922	CE	MET	A	262	6.552	16.931	5.973	1.00	33.59
1923	N	SER	Α	263	5.220	17.898	11.968	1.00	30.55
1924	CA	SER	A	263	4.195	18.630	12.684	1.00	31.14
1925	c	SER	A	263	4.371	20.143	12.513	1.00	31.88
1926	0	SER	A	263	5.461	20.618	12.178	1.00	31.41
1927	СВ	SER	A	263	4.271	18.315	14.184	1.00	31.36
	OG	SER	A	263	5.026	19.356	14.817	1.00	32.23
1928	N	SER	A	264	3.304	20.883	12.800	1.00	32.27
1929		SER	Ā	264	3.383	22.344	12.751	1.00	33.13
1930	CA	SER	Ā	264	2.953	22.913	14.107	1.00	33.50
1931	<u>c</u>		Â	264	2.190	22.277	14.843	1.00	34.89
1932	0	SER		264	2.563	22.928	11.619	1.00	33.19
1933	CB	SER	A	264	3.245	22.889	10.378	1.00	32.30
1934	OG	SER	A	265	3.549	24.024	14.495	1.00	32.03
1935	N	ASP	A		3.310	24.635	15.783	1.00	31.81
1936	CA	ASP	A	265	2.084	25.546	15.757	1.00	33.26
1937	С	ASP	A	265	1.225	25.499	16.637	1.00	33.79
1938	0	ASP	A	265		25.457	16.231	1.00	29.59
1939	СВ	ASP	Α	265	4.523	24.701	17.034	1.00	27.79
1940	CG	ASP	Α	265	5.554	23.486	17.253	1.00	25.02
1941	ODI	ASP.	A	265	5.426		17.450	1.00	27.38
1942	OD2	ASP	Α	265	6.556	25.343	14.753	1.00	34.80
1943	N	ALA	A	266	2.039	26.413		1.00	36.45
1944	CA	ALA	Α	266	0.929	27.352	14.616	1.00	38.12
1945	С	ALA	A	266	0.882	28.274	15.829		39.22
1946	0	ALA	Α	266	-0.183	28.542	16.390	1.00	35.63
1947	СВ	ALA	Α	266	-0.366	26.578	14.412	1.00	
1948	N	TYR	Α	267	2.047	28.804	16.209	1.00	39.02
1949	CA	TYR	Α	267	2.138	29.676	17.365	1.00	40.82
1950	C	TYR	A	267	2.858	30.985	17.074	1.00	40.11
1951	0	TYR	A	267	2.279	32.071	17.056	1.00	40.09
1952	СВ	TYR	A	267	2.853	28.938	18.513	1.00	42.94
1953	CG	TYR	A	267	2.995	29.795	19.754	1.00	45.78
	CDI	TYR	A	267	1.870	30.187	20.475	1.00	46.70
1954		TYR	Â	267	4.240	30.225	20.194	1.00	46.17
	CD2	TYR	Â	267	1.997	30.980	21.598	1.00	47.78
1956	CEI	TYR	Â	267	4.369	31.016	21.316	1.00	46.66
1957	CE2		+A	267	3.246	31.393	22.012	1.00	47.81
1958	CZ	TYR		267	3.352	32.177	23.146	1.00	49.51
1959	OH	TYR	A	268	4.167	30.890	16.898	1.00	39.39
1960	N	HIS	A		4.985	32.066	16.641	1.00	38.82
1961	CA_	HIS	- A	268	5.976	31.797	15.519	1.00	38.25
1962	C	HIS	A	268		30.640	15.227	1.00	37.62
1963	0	HIS	A	268	6.275	32.479	17.942	1.00	38.89
1964	CB	HIS	Α	268	5.684		17.821	1.00	38.92
1965	CG	HIS	A	268	6.302	33.838	17.404	1.00	39.06
1966	NDI	HIS	Α	268	7.602	34.018			39.28
1967	CD2	HIS	Α	268	5.784	35.065	18.025	1.00	
1968	CEI	HIS	Α	268	7.871	35.309	17.376	1.00	39.76
1969	NE2	HIS	Α	268	6.783	35.966	17.743	1.00	40.01
1970	N	MET	A	269	6.475	32.851	14.890	1.00	38.43
1970	CA	MET	A	269	7.351	32.732	13.739	1.00	39.01
1972	c	MET	A	269	8.749	32.275	14.107	1.00	39.15

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1973	0	MET	A	269	9.426	31.657	13.275	1.00	39.25
	СВ	MET	A	269	7.386	34.016	12.910	1.00	38.43
1974		MET	A	269	7.675	35.291	13.655	1.00	38.54
1975	CG			269	8.284	36.624	12.597	1.00	39.05
1976	SD	MET	Α		6.747	37.295	11.973	1.00	38.85
1977	CE	MET	Α	269		32.554	15.318	1.00	39.79
1978	N	THR	Α	270	9.206			1.00	39.79
1979	CA	THR	Α	270	10.544	32.142	15.738		
1980	C	THR	Α	270	10.491	31.386	17.061	1.00	39.73
1981	0	THR	Α	270	11.262	30.461	17.286	1.00	40.16
1982	CB	THR	A	270	11.500	33.336	15.909	1.00	39.47
1983	OGI	THR	A	270	10.849	34.378	16.650	1.00	38.86
		THR	A	270	11.946	33.850	14.549	1.00	39.41
1984	CG2			271	9.562	31.784	17.912	1.00	39.92
1985	N	SER	A		9.368	31.191	19.218	1.00	40.15
1986	CA	SER	A	271			19.208	1.00	39.41
1987	С	SER	Α	271	8.529	29.923			38.39
1988	0	SER	A	271	7.519	29.833	18.522	1.00	
1989	СВ	SER	Α	271	8.655	32.218	20.122	1.00	40.93
1990	OG	SER	A	271	9.597	32.892	20.930	1.00	42.94
1991	N	PRO	A	272	8.916	28.967	20.033	1.00	39.55
	CA	PRO	A	272	8.149	27.755	20.264	1.00	39.89
1992		PRO	Ā	272	7.144	27.989	21.382	1.00	40.70
1993	C			272	7.253	28.945	22.155	1.00	40.74
1994	0	PRO	A			26.763	20.710	1.00	39.54
1995	СВ	PRO	Α	272	9.213		21.378	1.00	39.69
1996	CG	PRO	A	272	10.251	27.585			39.50
1997	CD	PRO	Α	272	10.104	29.011	20.924	1.00	
1998	N	PRO	Α	273	6.128	27.155	21.451	1.00	41.57
1999	CA	PRO	A	273	5.155	27.209	22.529	1.00	41.97
2000	C	PRO	Α	273	5.763	26.687	23.815	1.00	42.79
		PRO	A	273	6.367	25.604	23.834	1.00	42.22
2001	0			273	4.021	26.336	22.032	1.00	41.91
2002	СВ	PRO	Α		4.442	25.701	20.769	1.00	41.49
2003	CG	PRO	Α	273			20.573	1.00	41.55
2004	CD	PRO	Α	273	5.908	25.976			44.77
2005	N	GLU	Α	274	5.557	27.355	24.947	1.00	
2006	CA	GLU	Α	274	6.113	26.899	26.229	1.00	46.56
2007	С	GLU	A	274	5.820	25.427	26.481	1.00	45.89
2008	o	GLU	A	274	6.614	24.681	27.049	1.00	46.05
2009	СВ	GLU	A	274	5.598	27.763	27.382	1.00	48.17
		GLU	A	274	6.173	29.169	27.404	1.00	49.92
2010	CG			274	6.416	29.712	28.793	1.00	51.48
2011	CD	GLU	A		5.443	30.190	29.421	1.00	52.14
2012	OEI	GLU	Α	274		29.677	29.280	1.00	52.45
2013	OE2	GLU	A	274	7.573			1.00	45.72
2014	N	ASN	Α	275	4.655	24.997	26.094		
2015	CA	ASN	Α	275	4.102	23.686	26.059	1.00	46.22
2016	С	ASN	A	275	4.974	22.643	25.375	1.00	45.27
2017	0	ASN	Α	275	5.181	21.540	25.870	1.00	45.50
2018	СВ	ASN	A	275	2.792	23.832	25.226	1.00	48.36
		ASN	A	275	1.786	22.757	25.501	1.00	50.56
2019	CG		A	275	0.610	23.052	25.746	1.00	51.89
2020	OD1	ASN		275	2.222	21.499	25.461	1.00	51.68
2021	ND2	ASN	 ^ -			22.926	24.142	1.00	43.78
2022	N	GLY	I A	276	5.404		23.332	1.00	41.18
2023	CA	GLY	A	276	6.162	21.984			39.94
2024	С	GLY	Α	276	5.229	21.052	22.558	1.00	
2025	0	GLY	Α	276	5.630	19.999	22.057	1.00	38.60
2026	N	ALA	A	277	3.960	21.444	22,429	1.00	38.88
2027	CA	ALA	Α	277	2.943	20.651	21.765	1.00	38.13
		ALA	A	277	3.282	20.243	20.338	1.00	37.49
2028	C			277	2.921	19.138	19.911	1.00	37.45
2029	0	ALA	A			21.380	21.780	1.00	37.64
2030	CB	ALA	A	277	1.602		19.562	1.00	36.32
2031	N	GLY.	A	278	3.871	21.144			34.59
2032	CA	GLY	Α	278	4.257	20.831	18.183	1.00	
2033	С	GLY	Α	278	5.357	19.776	18.211	1.00	33.11
2034	Ö	GLY	Α	278	5.263	18.743	17.545	1.00	32.66
2035	N	ALA	A	279	6.362	20.011	19.051	1.00	31.37
				279	7.431	19.025	19.215	1.00	31.33
2036	CA	ALA	1 <u>A</u>		6.857	17.681	19.660	1.00	31.17
2037	C	ALA	A	279		16.611	19.159	1.00	31.33
2038	0	ALA	A	279	7.231			1.00	31.56
2039	CB	ALA	I A	279	8.444	19.546	20.212		30.93
2040	N	ALA	Α	280	5.884	17.714	20.562	1.00	1 30.93

2041	CA	ALA	Α	280	5.212	16.518	21.041	1.00	31.18
2042	С	ALA	Α	280	4.505	15.758	19.932	1.00	31.56
2043	0	ALA	Α	280	4.626	14.536	19.788	1.00	31.58
2044	CB	ALA	A	280	4.227	16.911	22.141	1.00	30.59
2045	N	LEU	A	281	3.781	16.482	19.078	1.00	31.84
			A	281	2.989	15.831	18.031	1.00	32.50
2046	CA	LEU		281	3.840	15.238	16.924	1.00	32.77
2047	<u>C</u>	LEU	Α			14.330	16.205	1.00	32.06
2048	0	LEU	A	281	3.402			1.00	33.11
2049	CB	LEU	Α	281	1.958	16.823	17.508		
2050	CG	LEU	Α	281	1.157	16.429	16.271	1.00	34.64
2051	CDI	LEU	Α	281	0.256	15.241	16.556	1.00	33.87
2052	CD2	LEU	Α	281	0.351	17.623	15.767	1.00	34.77
2053	N	ALA	Α	282	5.072	15.723	16.774	1.00	32.69
2054	CA	ALA	A	282	5.988	15.209	15.765	1.00	31.83
2055	C	ALA	A	282	6.667	13.936	16.256	1.00	31.20
		ALA	A	282	6.953	13.060	15.448	1.00	29.68
2056	0				7.022	16.256	15.397	1.00	32.01
2057	СВ	ALA	Α	282		13.865	17.571	1.00	31.55
2058	N	MET	Α	283	6.927			1.00	32.09
2059	CA	MET	Α	283	7.522	12.619	18.101		
2060	С	MET	Α	283	6.415	11.558	18.038	1.00	32.78
2061	0	MET	A	283	6.510	10.526	17.386	1.00	32.13
2062	СВ	MET	Α	283	8.041	12.793	19.507	1.00	31.89
2063	CG	MET	Α	283	9.262	13.684	19.646	1.00	31.94
2064	SD	MET	A	283	9.783	13.914	21.342	1.00	31.98
2065	CE	MET	A	283	8.955	15.399	21.846	1.00	31.11
	N	ALA	A	284	5.274	11.947	18.604	1.00	33.35
2066			Ā	284	4.038	11.207	18.566	1.00	33.77
2067	CA	ALA			3.757	10.601	17.196	1.00	34.98
2068	C	ALA	Α	284		9.387	17.080	1.00	36.92
2069	0	ALA	A	284	3.547			1.00	33.34
2070	СВ	ALA	Α	284	2.907	12.160	18.950		
2071	N	ASN	Α	285	3.789	11.409	16.147	1.00	35.09
2072	CA	ASN	Α	285	3.535	10.975	14.782	1.00	34.98
2073	С	ASN	Α	285	4.601	10.009	14.281	1.00	35.26
2074	0	ASN	Α	285	4.339	9.059	13.540	1.00	35.45
2075	CB	ASN	A	285	3.433	12.196	13.863	1.00	34.80
2076	CG	ASN	Α	285	2.128	12.946	13.906	1.00	35.23
2077	ODI	ASN	A	285	1.075	12.436	14.290	1.00	36.24
	ND2	ASN	A	285	2.126	14.219	13.505	1.00	34.94
2078				286	5.854	10.220	14.671	1.00	35.27
2079	N	ALA	A	286	6.964	9.362	14.285	1.00	34.55
2080	CA	ALA	Α			7.970	14.874	1.00	35.42
2081	C	ALA	Α	286	6.742		14.264	1.00	34.04
2082	0	ALA	Α	286	6.960	6.935			33.75
2083	CB	ALA	Α	286	8.268	9.936	14.818	1.00	
2084	N	LEU	Α	287	6.321	7.995	16.143	1.00	37.17
2085	CA	LEU	A	287	6.018	6.780	16.884	1.00	38.32
2086	С	LEU	Α	287	4.957	5.967	16.164	1.00	39.73
2087	ō	LEU	A	287	5.158	4.784	15.877	1.00	38.69
2088	СВ	LEU	A	287	5.600	7.154	18.313	1.00	37.88
2089	CG	LEU	Α _	287	6.795	7.426	19.249	1.00	37.80
2090	CDI	LEU	Ā	287	6.334	7.877	20.616	1.00	37.05
		LEU	A	287	7.683	6.190	19.347	1.00	37.58
2091	CD2	+		288	3.851	6.632	15.806	1.00	41.38
2092	N	ARG	A		2.769	5.969	15.083	1.00	42.96
2093	CA	ARG	Α	288			13.774	1.00	42.65
2094	C	ARG	Α	288	3.269	5.379			42.61
2095	0	ARG	A	288	3.015	4.219	13.465	1.00	
2096	СВ	ARG	Α	288	1.613	6.940	14.836	1.00	45.04
2097	CG	ARG	A	288	0.425	6.321	14.128	1.00	48.66
2098	CD	ARG	Α	288	-0.811	7.210	14.128	1.00	51.29
2099	NE	ARG	A	288	-0.651	8.364	13.243	1.00	53.75
2100	cz	ARG	A	288	-0.499	9.617	13.668	1.00	54.99
		ARG	A	288	-0.514	9.916	14.964	1.00	54.93
2101	NHI			288	-0.326	10.579	12.762	1.00	56.01
2102	NH2	ARG	A			6.129	13.025	1.00	42.95
2103	N	ASP	Α	289	4.067				42.81
2104	CA	ASP	A	289	4.620	5.710	11.751	1.00	
2105	С	ASP	A	289	5.494	4.477	11.897	1.00	43.26
2106	0	ASP	Α	289	5.539	3.627	11.010	1.00	43.44
2107	СВ	ASP	Α	289	5.428	6.850	11.122	1.00	43.06
2108	CG	ASP	Α	289	5.762	6.635	9.663	1.00	43.34
. 4.00	1								

2110 OD2					00/	110				
2111	2109	ODI	ASP	A	289	6.926	6.875	9.262	1.00	43.42
					289	4.871	6.222	8.888	1.00	43.16
2111				A	290	6.219	4.383	13.006	1.00	44.10
2113 C					290	7.082	3.243	13.279	1.00	44.21
2114	_		+						1.00	44.87
2115 CB								+	1.00	45.98
2116 N GLY A 291 5.218 2.444 14.536 1.00 44.8 2117 CA GLY A 291 4.362 1.476 15.281 1.00 44.8 2118 C GLY A 291 4.364 1.013 16.634 1.00 44.9 2119 O GLY A 291 4.864 1.013 16.634 1.00 44.9 2119 O GLY A 291 4.871 -0.051 17.128 1.00 44.5 2120 N ILE A 292 5.742 1.778 17.273 1.00 44.5 2121 CA ILE A 292 5.300 1.395 18.562 1.00 44.5 2121 CA ILE A 292 5.816 2.343 19.650 1.00 45.5 2123 O ILE A 292 5.816 2.343 19.650 1.00 45.5 2123 O ILE A 292 5.816 2.343 19.650 1.00 45.5 2123 O ILE A 292 5.816 2.343 19.650 1.00 45.5 2123 O ILE A 292 5.816 2.343 19.650 1.00 45.5 2123 CGI ILE A 292 8.408 2.772 18.452 1.00 43.5 2125 CGI ILE A 292 8.345 0.488 18.452 1.00 43.5 2126 CG2 ILE A 292 8.345 0.488 18.7399 1.00 43.5 2127 CDI ILE A 293 6.139 2.028 20.856 1.00 43.5 2128 N GLU A 293 5.750 2.864 22.029 1.00 47.0 2130 C GLU A 293 5.750 2.864 22.029 1.00 47.0 2131 O GLU A 293 3.630 0.325 2.4855 1.00 47.0 2133 CB GLU A 293 3.630 0.235 2.4855 1.00 55.8 2134 CD GLU A 293 3.630 0.235 2.4855 1.00 55.8 2135 OEI GLU A 293 3.630 0.235 2.4855 1.00 55.8 2136 OEZ GLU A 293 3.630 0.235 2.4855 1.00 55.8 2137 N ALA A 294 7.797 5.618 23.718 1.00 47.0 2138 CA ALA A 294 7.797 5.618 23.718 1.00 47.0 2139 C GLU A 293 3.630 0.235 2.4855 1.00 56.9 2131 CA GLU A 293 3.630 0.235 2.4855 1.00 56.9 2138 CA ALA A 294 7.797 5.618 23.718 1.00 47.5 2144 CB GLU A 293 3.630 0.235 2.4855 1.00 56.9 2144 CB GLU A 293 3.630 0.235 2.485										43.78
2117 CA GLY A 291 4.362 1.476 15.281 1.00 44.4 2118 C GLY A 291 4.864 1.013 16.654 1.00 44.9 2120 N ILE A 292 4.471 -0.051 17.128 1.00 45.5 2121 CA ILE A 292 5.742 1.778 17.273 1.00 44.8 2122 C ILE A 292 5.300 1.395 18.562 1.00 44.8 2122 C ILE A 292 5.816 2.343 19.650 1.00 45.5 2123 O ILE A 292 5.816 2.343 19.650 1.00 45.6 2123 CB ILE A 292 5.815 3.335 19.342 1.00 46.1 2124 CB ILE A 292 7.813 1.360 18.544 1.00 43.7 2125 CG1 ILE A 292 8.408 2.772 18.452 1.00 43.7 2126 CG2 ILE A 292 8.408 2.772 18.452 1.00 43.7 2127 CD1 ILE A 292 8.408 2.772 18.452 1.00 43.5 2128 N GLU A 293 6.139 2.023 18.411 1.00 43.8 2129 CA GLU A 293 6.139 2.028 20.896 1.00 45.8 2130 C GLU A 293 5.750 2.864 22.039 1.00 45.4 2131 CG GLU A 293 5.750 2.864 22.039 1.00 45.8 2133 CG GLU A 293 5.750 2.864 22.039 1.00 45.8 2134 CD GLU A 293 3.680 1.735 2.3051 1.00 53.5 2134 CD GLU A 293 3.663 0.235 2.4855 1.00 55.8 2135 CGI GLU A 293 3.663 0.235 2.4855 1.00 55.8 2136 OE2 GLU A 293 3.663 0.235 2.4855 1.00 55.8 2137 N ALA A 294 6.708 4.773 2.3233 1.00 48.2 2137 N ALA A 294 7.797 5.618 23.718 1.00 47.2 2140 O ALA A 294 7.797 5.618 23.718 1.00 47.2 2141 CB GLW A 293 3.663 0.235 2.4855 1.00 55.8 2135 OE1 GLW A 293 3.663 0.235 2.4855 1.00 48.2 2146 CB SER A 295 3.663 0.235 2.4855 1.00 4.64 2147 OG SER A 294 1.0056 5.007 24.289 1.00 47.2 2148 N GLW A 293 3.663 0.235 2.4855 1.00 48.2 2149 CA GLW A 298 3.663 0.235 2.			+					, 		44.81
2118 C										44.46
2119						-		† 		
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2121								\		+
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2125 CGI ILE A 292 8.408 2.772 18.452 1.00 43.5.										
2126 CG2 ILE A 292 8.345 0.488 17.399 1.00 43.4 2127 CD1 ILE A 292 9.919 2.823 18.411 1.00 43.8 2128 N GU A 293 6.139 2.028 20.896 1.00 46.59 2129 CA GLU A 293 5.750 2.864 22.029 1.00 47.0 2130 C GLU A 293 5.750 2.864 22.029 1.00 47.0 2131 O GLU A 293 8.089 3.286 22.313 1.00 46.4 2132 CB GLU A 293 5.186 1.973 23.133 1.00 46.4 2132 CB GLU A 293 3.860 1.735 23.051 1.00 53.5 2134 CD GLU A 293 3.186 1.973 23.133 1.00 53.5 2135 OEI GLU A 293 3.663 0.235 24.895 1.00 55.8 2135 OEI GLU A 293 3.663 0.235 24.895 1.00 55.8 2136 OE2 GLU A 293 3.663 0.235 24.895 1.00 55.8 2137 N ALA A 294 6.708 4.773 23.233 1.00 46.2 2138 CA ALA A 294 6.708 4.773 23.233 1.00 45.8 2139 C ALA A 294 8.843 4.831 24.484 1.00 47.2 2140 O ALA A 294 8.843 4.831 24.484 1.00 47.2 2140 O ALA A 294 10.056 5.007 24.289 1.00 48.2 2141 CB ALA A 294 7.260 6.780 24.346 1.00 47.2 2142 N SER A 295 8.436 3.892 25.316 1.00 46.7 2144 C SER A 295 8.436 3.892 25.316 1.00 46.7 2145 O SER A 295 8.340 2.003 26.837 1.00 45.6 2144 C SER A 295 8.340 2.003 26.837 1.00 45.6 2145 O SER A 295 8.340 2.003 26.837 1.00 45.6 2147 OG SER A 295 8.340 2.003 26.837 1.00 45.6 2147 OG SER A 295 8.70 0.966 25.905 1.00 48.2 2149 CA GLN A 296 10.256 2.092 2.102 1.00 45.7 2150 CE GLN A 296 10.256 2.092 2.102 1.00 45.7 2151 OG CIN A 296 10.256 2.092 2.102 1.00 3.6 2160 O ILE A 297 1.205 3.573 2.3038 1.00 44.3 2150 C GLN A 296 10.256 2.995 1.00 3.6 2161 CB ILE A 297 1.205 3.593 2.205 1						,				
2127 CDI ILE A 292 9.919 2.823 18.411 1.00 43.8 2128 N GLU A 293 6.139 2.028 20.896 1.00 46.51 2130 C GLU A 293 6.5750 2.864 22.029 1.00 47.8 2131 O GLU A 293 6.937 3.673 22.527 1.00 47.0 2131 O GLU A 293 8.089 3.286 22.313 1.00 45.6 2132 CB GLU A 293 3.680 1.735 23.051 1.00 50.6 2133 CG GLU A 293 3.680 1.735 23.051 1.00 50.6 2133 CG GLU A 293 3.680 1.735 23.051 1.00 55.8 2134 CD GLU A 293 3.680 1.735 23.051 1.00 55.8 2135 OEI GLU A 293 3.680 1.735 23.051 1.00 55.8 2136 OE2 GLU A 293 3.683 0.235 24.895 1.00 55.8 2137 N ALA A 294 6.708 4.773 23.233 1.00 46.8 2138 CA ALA A 294 7.797 5.618 23.718 1.00 47.7 2140 O ALA A 294 7.797 5.618 23.718 1.00 47.7 2140 O ALA A 294 7.260 6.780 24.546 1.00 47.7 2141 CB ALA A 294 7.260 6.780 24.546 1.00 47.7 2142 N SER A 295 8.436 3.892 25.316 1.00 46.8 2143 CA SER A 295 8.436 3.892 25.316 1.00 46.5 2144 C SER A 295 8.436 3.892 25.316 1.00 46.5 2145 O SER A 295 8.340 2.003 26.837 1.00 46.5 2146 CB SER A 295 8.340 2.003 26.837 1.00 48.2 2147 OG SER A 295 8.340 2.003 26.837 1.00 48.2 2148 N GLN A 296 10.256 2.092 24.102 1.00 45.5 2149 CA GLN A 296 10.256 2.092 24.102 1.00 45.5 2149 CA GLN A 296 10.256 2.092 24.102 1.00 45.5 2149 CA GLN A 296 10.256 2.092 24.102 1.00 45.5 2149 CA GLN A 296 10.256 2.092 24.102 1.00 45.5 2149 CA GLN A 296 10.256 2.092 24.102 1.00 45.5 2149 CA GLN A 296 10.256 2.092 24.102 1.00 45.5 2151 O GLN A 296 10.256 2.092 24.102 1.00 45.5 2152 CB GLN A 296 10.65			+					-		
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2129 CA GLU A 293 5.750 2.864 22.029 1.00 47.8										+
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2131	2129		GLU			-				47.85
2132 CB GLU A 293 5.186 1.973 23.133 1.00 50.65 2133 CG GLU A 293 3.680 1.735 23.051 1.00 53.5 2136 CD GLU A 293 3.680 1.735 23.051 1.00 53.5 2135 OE1 GLU A 293 3.663 0.235 24.895 1.00 55.81 2136 OE2 GLU A 293 2.191 1.876 24.929 1.00 56.91 2137 N ALA A 294 6.708 4.773 23.233 1.00 46.81 2138 CA ALA A 294 7.797 5.618 23.718 1.00 47.22 2139 C ALA A 294 10.056 5.007 24.289 1.00 47.22 2139 C ALA A 294 10.056 5.007 24.289 1.00 47.22 2140 O ALA A 294 10.056 5.007 24.289 1.00 45.72 2141 CB ALA A 294 7.260 6.780 24.546 1.00 45.72 2142 N SER A 295 8.436 3.892 25.316 1.00 45.72 2143 CA SER A 295 9.257 3.037 26.133 1.00 45.72 2144 C SER A 295 10.346 2.265 25.410 1.00 45.72 2145 O SER A 295 1.304 2.265 25.410 1.00 45.72 2146 CB SER A 295 1.304 2.265 25.410 1.00 45.72 2147 OG SER A 295 8.340 2.003 26.837 1.00 45.72 2148 N GLN A 296 11.275 1.355 23.359 1.00 48.22 2149 CA GLN A 296 11.275 1.355 23.359 1.00 42.72 2150 C GLN A 296 10.256 2.092 2.490 1.00 45.52 2151 O GLN A 296 10.617 0.635 22.180 1.00 45.67 2152 CB GLN A 296 10.617 0.635 22.180 1.00 45.67 2153 CG GLN A 296 1.2408 2.264 22.917 1.00 42.52 2151 O GLN A 296 1.261 0.818 2.1125 1.00 48.72 2152 CB GLN A 296 1.261 0.818 2.1125 1.00 48.72 2153 CG GLN A 296 1.261 0.818 2.1125 1.00 48.72 2154 CD GLN A 296 1.261 0.818 2.1125 1.00 40.52 2155 OE1 GLN A 296 1.763 3.73 3.108 1.00 37.62 2157 N ILE A 297 13.219 4.559 22.695 1.00 39.62 2156 OE GLN	2130	С	GLU	Α	293	6.937		22.527		47.03
2133 CG GLU A 293 3.680 1.735 23.051 1.00 53.57 2134 CD GLU A 293 3.132 1.252 24.385 1.00 55.85 2135 OEI GLU A 293 3.163 0.235 24.895 1.00 55.85 2136 OE2 GLU A 293 2.191 1.876 24.929 1.00 56.96 2137 N ALA A 294 6.708 4.773 23.233 1.00 46.87 2138 CA ALA A 294 7.797 5.618 23.718 1.00 47.72 2139 C ALA A 294 8.843 4.831 24.484 1.00 47.72 2140 O ALA A 294 10.056 5.007 24.289 1.00 48.27 2141 CB ALA A 294 10.056 5.007 24.289 1.00 48.27 2142 N SER A 295 8.436 3.892 25.316 1.00 48.07 2143 CA SER A 295 9.257 3.037 26.133 1.00 47.56 2144 C SER A 295 10.346 2.265 25.410 1.00 46.57 2145 O SER A 295 11.303 1.793 26.057 1.00 47.56 2146 CB SER A 295 8.340 2.003 26.837 1.00 47.56 2147 OG SER A 295 8.340 2.003 26.837 1.00 48.01 2148 N GLN A 296 10.256 2.092 24.102 1.00 45.15 2149 CA GLN A 296 10.256 2.092 24.102 1.00 45.15 2149 CA GLN A 296 10.256 2.092 24.102 1.00 45.15 2150 C GLN A 296 13.471 1.798 22.505 1.00 42.75 2151 O GLN A 296 13.471 1.798 22.505 1.00 42.75 2153 CG GLN A 296 13.471 1.798 22.505 1.00 42.75 2154 CD GLN A 296 13.471 1.798 22.505 1.00 42.75 2153 CG GLN A 296 13.471 1.798 22.505 1.00 42.75 2153 CG GLN A 296 13.471 1.798 22.505 1.00 42.75 2154 CD GLN A 296 13.471 1.798 22.505 1.00 42.75 2155 OEI GLN A 296 13.471 1.798 22.505 1.00 43.75 2154 CD GLN A 296 13.471 1.798 22.505 1.00 43.75 2155 OEI GLN A 296 13.471 1.798 22.505 1.00 43.75 2155 OEI GLN A 296 13.471 1.798 22.505 1.00 37.75	2131		GLU							46.47
2134 CD GLU A 293 3.132 1.252 24.385 1.00 55.8° 2135 OE1 GLU A 293 3.663 0.235 24.895 1.00 56.8° 2137 N ALA A 294 6.708 4.773 23.233 1.00 46.8° 2138 CA ALA A 294 6.708 4.773 23.233 1.00 46.8° 2138 CA ALA A 294 8.843 4.831 24.844 1.00 47.7° 2140 O ALA A 294 10.056 5.007 24.289 1.00 48.2° 2141 CB ALA A 294 10.056 5.007 24.289 1.00 48.2° 2141 CB ALA A 294 10.056 5.007 24.289 1.00 48.2° 2142 N SER A 295 8.436 3.892 25.316 1.00 48.0° 2143 CA SER A 295 9.257 3.037 26.133 1.00 47.6° 2144 C SER A 295 9.257 3.037 26.133 1.00 47.6° 2145 O SER A 295 10.346 2.265 25.410 1.00 45.9° 2146 CB SER A 295 8.340 2.003 26.837 1.00 47.5° 2146 CB SER A 295 8.340 2.003 26.837 1.00 48.0° 2147 OG SER A 295 8.027 0.966 25.905 1.00 48.0° 2148 N GLN A 296 10.256 2.092 24.102 1.00 45.15° 2149 CA GLN A 296 11.275 1.355 23.339 1.00 42.3° 2150 C GLN A 296 13.471 1.798 22.505 1.00 42.3° 2151 O GLN A 296 13.471 1.798 22.505 1.00 42.3° 2152 CB GLN A 296 13.471 1.798 22.505 1.00 42.3° 2153 CG GLN A 296 13.471 1.798 22.505 1.00 42.3° 2153 CG GLN A 296 13.471 1.798 22.505 1.00 42.3° 2153 CG GLN A 296 13.471 1.798 22.505 1.00 42.3° 2154 CD GLN A 296 13.471 1.798 22.505 1.00 42.3° 2155 OE1 GLN A 296 13.471 1.798 22.505 1.00 42.3° 2155 OE1 GLN A 296 13.471 1.798 22.505 1.00 43.1° 2156 NEZ GLN A 296 13.471 1.798 22.505 1.00 43.1° 2155 OE1 GLN A 296 1.763 21.001 1.00 43.1° 2156 OE2 GLN A 296 1.763 21.001 30.3° 2166 CA GLY A 298 15.515 4.307 23.421 1.00 37.6° 2167 CG	2132	СВ	GLU	A	293	5.186	1.973	23.133		50.62
2135 OE1 GLU A 293 3.663 0.235 24.895 1.00 56.81 2136 OE2 GLU A 293 2.191 1.876 24.929 1.00 56.91 2137 N ALA A 294 6.708 4.773 23.233 1.00 46.98 2138 CA ALA A 294 7.797 5.618 23.718 1.00 47.24 2139 C ALA A 294 8.843 4.831 24.484 1.00 47.24 2140 O ALA A 294 7.260 6.780 24.289 1.00 46.78 2141 CB ALA A 294 7.260 6.780 24.289 1.00 46.78 2142 N SER A 295 8.436 3.892 25.316 1.00 48.02 2143 CA SER A 295 8.436 3.892 25.316 1.00 48.02 2144 C SER A 295 10.346 2.265 25.410 1.00 46.97 2145 O SER A 295 11.303 1.793 26.037 1.00 47.50 2146 CB SER A 295 13.303 1.793 26.057 1.00 47.50 2147 OG SER A 295 8.827 0.966 25.905 1.00 47.50 2148 N GLN A 296 10.256 2.092 24.102 1.00 45.18 2149 CA GLN A 296 11.275 1.355 23.359 1.00 45.18 2150 C GLN A 296 11.2408 2.264 22.917 1.00 42.91 2151 O GLN A 296 11.275 1.355 23.359 1.00 45.18 2151 O GLN A 296 10.256 2.092 24.102 1.00 45.18 2151 O GLN A 296 13.471 1.798 22.505 1.00 42.71 2152 CB GLN A 296 13.471 1.798 22.505 1.00 45.18 2153 CG GLN A 296 13.471 1.798 22.505 1.00 45.17 2152 CB GLN A 296 10.617 0.635 22.180 1.00 45.16 2153 CG GLN A 296 13.471 1.798 22.505 1.00 45.16 2154 CD GLN A 296 13.471 1.798 22.505 1.00 45.16 2155 OE1 GLN A 296 13.471 1.798 22.505 1.00 45.16 2154 CD GLN A 296 3.471 3.753 23.038 1.00 47.75 2155 OE1 GLN A 296 3.573 23.038 3.00 3.75 2155 OE1 GLN A 296 3.573 23.038 3.00 3.76 2166 CA GLN A 296 3.573 3.573 23.038 3.00 3.76 2167 C GLN A 29	2133	CG	GLU	Α	293	3.680	1.735	23.051	1.00	53.57
2136 OE2 GLU A 293 2.191 1.876 24.929 1.00 56.90	2134	CD	GLU	Α	293	3.132	1.252	24.385	1.00	55.85
2136 OE2 GLU A 293 2.191 1.876 24.929 1.00 56.92 2137 N ALA A 294 6.708 4.773 23.233 1.00 46.88 2138 CA ALA A 294 7.797 5.618 23.718 1.00 47.24 2139 C ALA A 294 10.056 5.007 24.289 1.00 47.27 2140 O ALA A 294 10.056 5.007 24.289 1.00 48.22 2141 CB ALA A 294 7.260 6.786 24.546 1.00 46.78 2142 N SER A 295 8.436 3.892 25.316 1.00 48.02 2143 CA SER A 295 9.257 3.037 26.133 1.00 47.65 2144 C SER A 295 9.257 3.037 26.133 1.00 47.65 2145 O SER A 295 10.346 2.265 25.410 1.00 46.97 2146 CB SER A 295 11.303 1.793 26.057 1.00 47.55 2147 OG SER A 295 8.340 2.003 26.837 1.00 47.55 2148 N GLN A 296 10.256 2.092 24.102 1.00 45.16 2149 CA GLN A 296 11.275 1.355 23.359 1.00 44.36 2150 C GLN A 296 10.470 1.275 1.355 23.359 1.00 44.36 2151 O GLN A 296 10.471 1.799 22.505 1.00 42.77 2152 CB GLN A 296 10.617 0.635 22.180 1.00 45.67 2153 CG GLN A 296 10.617 0.635 22.180 1.00 45.67 2154 CD GLN A 296 3.471 1.799 22.505 1.00 42.77 2155 OE1 GLN A 296 7.551 -0.881 21.125 1.00 45.67 2156 NE2 GLN A 296 9.609 -1.763 21.001 1.00 48.74 2157 N ILLE A 297 12.205 3.573 23.038 1.00 41.44 2160 O ILE A 297 12.205 3.573 23.038 1.00 43.67 2161 CB ILE A 297 12.205 3.573 23.038 1.00 37.03 2162 CG1 ILE A 297 12.205 3.573 23.038 1.00 37.03 2163 CG GLY A 298 15.515 4.307 23.421 1.00 39.62 2164 CD1 ILE A 297 12.205 3.573 23.038 1.00 39.62 2165 N GLY A 298 15.515 4.307 23.421 1.00 37.03 2166 CA GLY A 298 15.515 4.307 23.421 1.00 37.03 2167 C GLY A 298 15.515 4.307 23.421	2135	OE!	GLU	A	293	3.663	0.235	24.895	1.00	56.88
2137 N		OE2	GLU	Α	293	2.191	1.876	24.929	1.00	56.96
2138		N	ALA	Α	294	6.708	4.773	23.233	1.00	46.80
2139 C	_				294	7.797	5.618	23.718	1.00	47.26
2140					294	8.843	4.831	24.484	1.00	47.74
2141 CB						10.056			1.00	48.22
2142 N SER A 295 8.436 3.892 25.316 1.00 48.02								+		46.78
2143 CA SER A 295 9.257 3.037 26.133 1.00 47.62 2144 C SER A 295 10.346 2.265 25.410 1.00 46.92 2145 O SER A 295 11.303 1.793 26.057 1.00 47.50 2146 CB SER A 295 8.340 2.003 26.837 1.00 48.01 2147 OG SER A 295 8.027 0.966 25.905 1.00 48.02 2148 N GLN A 296 10.256 2.092 24.102 1.00 45.13 2149 CA GLN A 296 11.275 1.355 23.359 1.00 44.36 2150 C GLN A 296 11.275 1.355 23.359 1.00 42.77 2151 O GLN A 296 13.471										
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2150 C GLN A 296 12.408 2.264 22.917 1.00 42.95 2151 O GLN A 296 13.471 1.798 22.505 1.00 42.77 2152 CB GLN A 296 10.617 0.635 22.180 1.00 45.62 2153 CG GLN A 296 9.237 0.075 22.532 1.00 46.52 2154 CD GLN A 296 8.730 -0.897 21.494 1.00 47.75 2155 OEI GLN A 296 7.551 -0.881 21.125 1.00 48.74 2156 NE2 GLN A 296 9.609 -1.763 21.001 1.00 48.30 2157 N ILE A 297 12.205 3.573 23.038 1.00 49.49 2159 C ILE A 297 14.281	$\overline{}$		+							+
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2163 CG2 ILE A 297 13.728 6.994 22.250 1.00 39.76 2164 CDI ILE A 297 12.247 5.455 19.990 1.00 39.45 2165 N GLY A 298 15.515 4.307 23.421 1.00 37.84 2166 CA GLY A 298 16.599 4.327 24.404 1.00 37.21 2167 C GLY A 298 17.183 5.719 24.557 1.00 37.35 2168 O GLY A 298 17.381 6.216 25.665 1.00 37.77 2169 N TYR A 299 17.447 6.354 23.420 1.00 37.03 2170 CA TYR A 299 17.388 8.622 22.447 1.00 35.82 2171 C TYR A 299 17.030	2161	СВ	ILE	Α		 				40.09
2163 CG2 ILE A 297 13.728 6.994 22.250 1.00 39.76 2164 CD1 ILE A 297 12.247 5.455 19.990 1.00 39.45 2165 N GLY A 298 15.515 4.307 23.421 1.00 37.84 2166 CA GLY A 298 16.599 4.327 24.404 1.00 37.21 2167 C GLY A 298 17.183 5.719 24.557 1.00 37.33 2168 O GLY A 298 17.381 6.216 25.665 1.00 37.03 2169 N TYR A 299 17.447 6.354 23.420 1.00 37.03 2170 CA TYR A 299 18.092 7.654 23.391 1.00 35.82 2171 C TYR A 299 17.388	2162	CG1	ILE	A		11.659			1.00	39.62
2164 CD1 ILE A 297 12.247 5.455 19.990 1.00 39.45 2165 N GLY A 298 15.515 4.307 23.421 1.00 37.84 2166 CA GLY A 298 16.599 4.327 24.404 1.00 37.21 2167 C GLY A 298 17.183 5.719 24.557 1.00 37.35 2168 O GLY A 298 17.381 6.216 25.665 1.00 37.77 2169 N TYR A 299 17.447 6.354 23.420 1.00 37.03 2170 CA TYR A 299 18.092 7.654 23.391 1.00 35.82 2171 C TYR A 299 17.388 8.622 22.447 1.00 35.82 2172 O TYR A 299 17.030 <			ILE	Α	297	13.728	6.994		1.00	39.76
2165 N GLY A 298 15.515 4.307 23.421 1.00 37.84 2166 CA GLY A 298 16.599 4.327 24.404 1.00 37.21 2167 C GLY A 298 17.183 5.719 24.557 1.00 37.35 2168 O GLY A 298 17.381 6.216 25.665 1.00 37.77 2169 N TYR A 299 17.447 6.354 23.420 1.00 37.03 2170 CA TYR A 299 18.092 7.654 23.391 1.00 35.82 2171 C TYR A 299 17.388 8.622 22.447 1.00 35.82 2172 O TYR A 299 17.030 8.314 21.312 1.00 35.55			ILE	Α	297	12.247		19.990	1.00	39.49
2166 CA GLY A 298 16.599 4.327 24.404 1.00 37.21 2167 C GLY A 298 17.183 5.719 24.557 1.00 37.35 2168 O GLY A 298 17.381 6.216 25.665 1.00 37.77 2169 N TYR A 299 17.447 6.354 23.420 1.00 37.03 2170 CA TYR A 299 18.092 7.654 23.391 1.00 35.98 2171 C TYR A 299 17.388 8.622 22.447 1.00 35.82 2172 O TYR A 299 17.030 8.314 21.312 1.00 35.55						15.515	4.307	23.421	1.00	37.84
2167 C GLY A 298 17.183 5.719 24.557 1.00 37.35 2168 O GLY A 298 17.381 6.216 25.665 1.00 37.77 2169 N TYR A 299 17.447 6.354 23.420 1.00 37.03 2170 CA TYR A 299 18.092 7.654 23.391 1.00 35.98 2171 C TYR A 299 17.388 8.622 22.447 1.00 35.82 2172 O TYR A 299 17.030 8.314 21.312 1.00 35.55								24.404	1.00	37.21
2168 O GLY A 298 17.381 6.216 25.665 1.00 37.77 2169 N TYR A 299 17.447 6.354 23.420 1.00 37.03 2170 CA TYR A 299 18.092 7.654 23.391 1.00 35.98 2171 C TYR A 299 17.388 8.622 22.447 1.00 35.82 2172 O TYR A 299 17.030 8.314 21.312 1.00 35.55										37.35
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2170 CA TYR A 299 18.092 7.654 23.391 1.00 35.98 2171 C TYR A 299 17.388 8.622 22.447 1.00 35.82 2172 O TYR A 299 17.030 8.314 21.312 1.00 35.55				 -						
2171 C TYR A 299 17.388 8.622 22.447 1.00 35.82 2172 O TYR A 299 17.030 8.314 21.312 1.00 35.55			-							
2172 O TYR A 299 17.030 8.314 21.312 1.00 35.55										
			+	-						
2173 CB TYR A 299 19.551 7.463 22.983 1.00 36.16										
										36.96
										37.22
2176 CD2 TYR A 299 20.456 9.757 23.535 1.00 37.10	2176	CD2	TYR	A	299	20.456	9.757	23.535	1.00	37.10

O 00/75	343			2//	110			PC17	US00/161
2177	CEI	TYR	A	299	21.648	9.957	21.048	1.00	37.84
2178	CE2	TYR	Α	299	21.165	10.893	23.204	1.00	37.79
2179	CZ	TYR	A	299	21.770	10.981	21.966	1.00	38.60
2180	ОН	TYR	A	299	22.504	12.096	21.627	1.00	39.51
2181	N	VAL	A	300	17.222	9.841	22.938	1.00	34.63
2182	CA	VAL	Α	300	16.664	10.948	22.185	1.00	33.18
2183	c	VAL	Α	300	17.784	11.965	21.929	1.00	32.63
2184	ō	VAL	A	300	18.255	12.605	22.871	1.00	32.19
2185	СВ	VAL	A	300	15.524	11.660	22.938	1.00	32.62
2186	CGI	VAL	A	300	15.214	13.020	22.333	1.00	32.40
2187	CG2	VAL	A	300	14.269	10.800	22.975	1.00	32.13
	N	ASN	A	301	18.193	12.099	20.675	1.00	32.15
2188		ASN	A	301	19.069	13.226	20.309	1.00	31.41
2189	CA		Â	301	18.178	14.464	20.181	1.00	30.53
2190	C	ASN			17.442	14.640	19.215	1.00	31.07
2191	0	ASN	A	301			19.048	1.00	31.30
2192	СВ	ASN	Α	301	19.859	12.951			
2193	CG	ASN	Α	301	20.806	14.085	18.713	1.00	31.98
2194	ODI	ASN	Α	301	21.995	14.005	19.010	1.00	31.87
2195	ND2	ASN	Α	301	20.263	15.136	18.093	1.00	32.95
2196	N	ALA	Α	302	18.200	15.291	21.205	1.00	29.64
2197	CA	ALA	Α	302	17.376	16.466	21.312	1.00	29.90
2198	С	ALA	Α	302	17.724	17.596	20.361	1.00	29.88
2199	0	ALA	Α	302	18.820	17.710	19.818	1.00	30.09
2200	CB	ALA	Α	302	17.484	17.001	22.755	1.00	29.38
2201	N	HIS	Α	303	16.747	18.500	20.201	1.00	29.39
2202	CA	HIS	A	303	17.001	19.687	19.382	1.00	29.72
2203	C	HIS	Α	303	17.906	20.605	20.225	1.00	29.85
2204	ō	HIS	A	303	18.944	21.062	19.777	1.00	29.00
2205	СВ	HIS	A	303	15.719	20.388	18.976	1.00	29.67
2206	CG	HIS	A	303	15.963	21.570	18.080	1.00	29.65
2207	NDI	HIS	Ā	303	16.740	21.478	16.942	1.00	30.47
			Ā	303	15.552	22.850	18.160	1.00	29.32
2208	CD2	HIS		303	16.792	22.660	16.355	1.00	30.67
2209	CEI	HIS	Α		16.084	23.516	17.084	1.00	30.18
2210	NE2	HIS	A	303 304	17.545	20.716	21.499	1.00	30.19
2211	N	GLY	A				22.551	1.00	31.04
2212	CA	GLY	Α	304	18.260	21.378			30.87
2213	C	GLY	<u> </u>	304	19.387	22.299	22.113	1.00	
2214	0	GLY	A	304	20.568	21.962	22.172	1.00	30.26
2215	N	THR	A	305	19.016	23.502	21.704	1.00	30.59
2216	CA	THR	Α	305	19.924	24.486	21.163	1.00	30.95
2217	C	THR	A	305	20.526	25.444	22.160	1.00	30.62
2218	0	THR	A	305	21.218	26.374	21.730	1.00	31.05
2219	СВ	THR	Α	305	19.167	25.300	20.073	1.00	31.44
2220	0G1	THR	Α	305	18.143	26.079	20.709	1.00	32.41
2221	CG2	THR	Α	305	18.511	24.357	19.074	1.00	30.77
2222	N	SER	A	306	20.310	25.280	23.448	1.00	30.65
2223	CA	SER	A	306	20.823	26.156	24.492	1.00	29.52
2224	С	SER	A	306	20.129	27.510	24.521	1.00	29.40
2225	0	SER	Α	306	20.713	28.556	24.800	1.00	28.21
2226	СВ	SER	A	306	22.333	26.315	24.382	1.00	29.55
2227	OG	SER	Α	306	22.887	26.873	25.564	1.00	29.38
2228	N	THR	A	307	18.828	27.513	24,218	1.00	30.00
2229	CA	THR	A	307	18.054	28.750	24.287	1.00	30.62
2230	C	THR	A	307	17.049	28.601	25.429	1.00	31.06
2231	0	THR	A	307	16.500	27.519	25.623	1.00	30.43
2232	СВ	THR	A	307	17.330	29.115	22.986	1.00	29.95
	+	THR		307	16.320	28.137	22.714	1.00	29.62
2233	OGI		A	307	18.318	29.199	21.834	1.00	29.18
2234	CG2	THR	A	308	16.948	29.632	26.249	1.00	32.42
2235	N N	PRO	A		16.079	29.618	27.413	1.00	33.00
2236	CA	PRO	Α	308					
	C	PRO	A	308	14.725	29.019	27.109	1.00	34.60
2237		I DDO	l A	308	14.429	27.899	27.560	1.00	36.16
2238	0	PRO			15.998	31.083	27.808	1.00	32.75
	O CB	PRO	Α	308		+			
2238			A	308	17.304	31.659	27.359	1.00	32.45
2238 2239	СВ	PRO	}	308 308	17.304 17.600	31.659 30.954	27.359 26.056	1.00 1.00	32.45 32.33
2238 2239 2240	CB CG	PRO PRO	Α	308	17.304	31.659	27.359	1.00	32.45
2238 2239 2240 2241	CB CG CD	PRO PRO PRO	A A	308 308	17.304 17.600	31.659 30.954	27.359 26.056	1.00 1.00	32.45 32.33

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2245	To	ALA	Α	309	11.768	26.998	25.490	1.00	36.25
2246	СВ	ALA	Α	309	11.839	30.245	25.132	1.00	36.27
2247	N	GLY	A	310	13.473	27.703	24.205	1.00	35.30
2248	CA	GLY	Α	310	13.536	26.509	23.394	1.00	34.58
2249	С	GLY	Α	310	13.761	25.233	24.178	1.00	35.19
2250	0	GLY	Α	310	13.020	24.257	24.002	1.00	34.63
2251	N	ASP	Α	311	14.748	25.228	25.076	1.00	36.16
2252	CA	ASP	A	311	15.095	24.027	25.837	1.00	37.35
2253	С	ASP	A	311	13.984	23.622	26.798	1.00	37.28
2254	0	ASP	A	311	13.703	22.442	26.979	1.00	35.57
2255	CB	ASP	Α	311	16.425	24.187	26.566	1.00	38.20
2256	CG	ASP	A	311	17.609	24.388	25.642	1.00	39.32
2257	OD1	ASP	A	311	18.776	24.372	26.101	1.00	38.85
2258	OD2	ASP	A	311	17.397	24.571	24.423	1.00	40.40
2259	N	LYS	A	312	13.300	24.604	27.377	1.00	38.66
2260	CA	LYS	Α	312	12.173	24.347	28.260	1.00	39.64
2261	C	LYS	A	312	11.110	23.515	27.545	1.00	39.36
2262	0	LYS	A	312	10.686	22.467	28.007	1.00	39.26
2263	СВ	LYS		312	11.532	25.663	28.693	1.00	41.64
2264	CG	LYS	A	312	12.133	26.320	29.920	1.00	43.75
2265	CD	LYS	A	312	11.035	26.838	30.841	1.00	45.48
2266	CE	LYS	A	312	11.461	28.114	31.550	1.00	47.04
2267	NZ	LYS	A	312	10.296	28.741	32.255	1.00	48.24
2268	N	ALA	A	313	10.680	24.032	26.398	1.00	39.30
2269	CA	ALA	A	313	9.625	23.450	25.595	1.00	38.76
2270	<u>C</u>	ALA	A	313	9.893			1.00	39.23
2271	0	ALA	A	313	9.032	21.158	25.441	1.00	40.34 38.69
2272	CB		<u> </u>	313		21.713	24.651	1.00	39.89
2273	CA	GLU	A	314	11.061	20.344	24.246	1.00	40.45
2275	C	GLU	A	314	11.322	19.373	25.418	1.00	40.84
2276	0	GLU	Â	314	10.768	18.279	25.320	1.00	40.97
2277	СВ	GLU	Ā	314	12.721	20.240	23.564	1.00	40.99
2278	CG	GLU	A	314	12.961	18.830	23.011	1.00	40.54
2279	CD	GLU	A	314	14.188	18.798	22.132	1.00	40.81
2280	OEI	GLU	A	314	14.953	19.783	22.149	1.00	40.94
2281	OE2	GLU	A	314	14.361	17.791	21.423	1.00	41.62
2282	N	ALA	A	315	11.963	19.767	26.514	1.00	41.04
2283	CA	ALA	A	315	11.937	18.989	27.740	1.00	41.54
2284	С	ALA	Α	315	10.495	18.632	28.093	1.00	41.87
2285	0	ALA	A	315	10.175	17.464	28.313	1.00	41.76
2286	СВ	ALA	A	315	12.588	19.759	28.877	1.00	41.38
2287	N	GLN	A	316	9.621	19.640	28.103	1.00	42.34
2288	CA	GLN	A	316	8.217	19.395	28.399	1.00	43.86
2289	С	GLN	A	316	7.595	18.404	27.423	1.00	44.27
2290	0	GLN	A	316	6.988	17.400	27.803	1.00	43.96
2291	CB	GLN	Α	316	7.412	20.695	28.386	1.00	44.58
2292	CG	GLN	A	316	5.971	20.493	28.849	1.00	46.52
2293	CD	GLN	Α	316	5.893	20.074	30.312	1.00	47.74
2294	OEI	GLN	Α	316	6.524	20.669	31.190	1.00	47.58
2295	NE2	GLN	A	316	5.130	19.006	30.546	1.00	47.69
2296	N	ALA	Α	317	7.864	18.596	26.130	1.00	44.25
2297	CA	ALA	A	317	7.349	17.688	25.118	1.00	44.89
2298	С	ALA	A	317	7.812	16.258	25.346	1.00	44.92
2299	0	ALA	Α	317	7.103	15.311	24.979	1.00	44.45
2300	СВ	ALA	Α	317	7.760	18.188	23.734	1.00	45.79
2301	N	VAL	A	318	9.008	16.071	25.897	1.00	45.09
2302	CA	VAL	A	318	9.525	14.735	26.187	1.00	45.96
2303	С	VAL	A	318	8.773	14.126	27.372	1.00	46.69
2304	0	VAL	A	318	8.442	12.943	27.383	1.00	46.39
2305	CB	VAL	A	318	11.038	14.753	26.459	1.00	45.52
2306	CGI	VAL	A	318	11.526	13.458	27.096	1.00	45.04
2307	CG2	VAL	A	318	11.806	15.009	25.166	1.00	44.92
2308	N	LYS	A	319	8.439	14.958	28.352	1.00	47.66
2309	CA	LYS	A	319	7.685	14.521	29.517	1.00	49.06
2310	C	LYS	A	319	6.271	14.119	29.128	1.00	49.78
2311	O CD	LYS	A	319	5.722	13.163	29.680	1.00	50.92
2312	CB	LYS	Α	319	7.689	15.604	30.598	1.00	49.56

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2313	CG	LYS	A	319	9.083	15.838	31.176	1.00	50.90
2314	CD	LYS	A	319	9.067	16.783	32.366	1.00	52.01
2315	CE	LYS	A	319	9.207	16.011	33.668	1.00	53.29
2316	NZ	LYS	Α	319	9.356	16.912	34.850	1.00	53.92
2317	N	THR	Α	320	5.698	14.790	28.141	1.00	49.61
2318	CA	THR	Α	320	4.377	14.478	27.627	1.00	49.41
2319	C	THR	Α	320	4.383	13.153	26.878	1.00	50.24
2320	0	THR	Α	320	3.445	12.365	27.009	1.00	51.00
2321	СВ	THR	Α	320	3.874	15.591	26.688	1.00	48.97
2322	OG1	THR	Α	320	3.544	16.754	27.464	1.00	48.43
2323	CG2	THR	Α	320	2.655	15.160	25.895	1.00	48.62
2324	N	ILE	Α	321	5.396	12.928	26.060	1.00	51.08
2325	CA	ILE	Α	321	5.482	11.731	25.236	1.00	52.44
2326	С	ILE	Α	321	5.988	10.521	25.994	1.00	53.78
2327	0	ILE	Α	321	5.453	9.413	25.850	1.00	54.21
2328	СВ	ILE	A	321	6.389	11.992	24.012	1.00	52.16
2329	CG1	ILE	Α	321	5.814	13.143	23.185	1.00	52.52
2330	CG2	ILE	Α	321	6.559	10.745	23.168	1.00	51.63
2331	CDI	ILE	Α	321	4.434	12.868	22.619	1.00	53.06
2332	N	PHE	Α	322	7.062	10.686	26.764	1.00	55.32 57.01
2333	CA	PHE	A	322	7.623	9.536	27.482	1.00	58.22
2334	C	PHE	A	322	6.854	9.233 8.063	29.131	1.00	58.09
2335	0	PHE	Α	322	6.709	9.740	27.695	1.00	56.37
2336	СВ	PHE	Α	322	9.129	9.510	26.375	1.00	56.26
2337	CG	PHE	A	322 322	9.837 9.909	10.521	25.438	1.00	56.23
2338	CDI	PHE	A	322	10.364	8.269	26.073	1.00	56.06
2339	CD2	PHE	Α	322	10.527	10.306	24.219	1.00	56.27
2340	CEI	PHE	A	322	10.981	8.052	24.857	1.00	56.46
2341	CE2	PHE	A	322	11.063	9.069	23.926	1.00	56.24
2342	CZ N	GLY	A	323	6.262	10.257	29.358	1.00	59.40
2343	CA	GLY	Â	323	5.449	10.098	30.548	1.00	61.56
2345	C	GLY	A	323	6.205	9.479	31.715	1.00	63.08
2346	0	GLY	A	323	7.035	10.135	32.346	1.00	62.72
2347	N	GLU	Ā	324	5.911	8.211	31.997	1.00	64.65
2348	CA	GLU	A	324	6.532	7.504	33.112	1.00	66.18
2349	c	GLU	A	324	7.932	7.025	32.757	1.00	65.94
2350	ō	GLU	A	324	8.799	6.936	33.631	1.00	66.15
2351	СВ	GLU	A	324	5.653	6.337	33.561	1.00	67.61
2352	CG	GLU	A	324	4.724	6.673	34.715	1.00	69.11
2353	CD	GLU	Α .	324	3.266	6.766	34.309	1.00	70.22
2354	OE1	GLU	Α	324	2.919	7.668	33.508	1.00	70.44
2355	OE2	GLU	Α	324	2.459	5.940	34.799	1.00	70.43
2356	N	ALA	Α	325	8.170	6.761	31.475	1.00	65.16
2357	CA	ALA	Α	325	9.469	6.309	31.002	1.00	64.72
2358	С	ALA	A	325	10.416	7.477	30.754	1.00	64.29
2359	0	ALA	A	325	11.565	7.276	30.360	1.00	63.88
2360	CB	ALA	A	325	9.326	5.470	29.739	1.00	63.99
2361	N	ALA	A	326	9.977	8.690	31.052	1.00	63.96
2362	CA	ALA	A	326	10.745	9.905	30.917 31.759	1.00	64.59
2363	C	ALA	A	326	12.013	9.906	31.739	1.00	65.46
2364	0	ALA	A	326	12.982	11.111	31.423	1.00	63.23
2365	CB	ALA	A	326	9.892	9.169	32.856	1.00	64.91
2366	N	SER	A	327	13.195	9.109	33.724	1.00	64.87
2367	CA	SER	A	327		8.006	33.253	1.00	64.31
2368	C	SER	A	327	14.168	8.062	33.553	1.00	65.08
2369	0	SER	A	327	12.725	8.745	35.152	1.00	65.49
2370	CB	SER	A	327	11.692	7.767	35.086	1.00	65.92
2371	OG	SER	A	327	13.663	7.014	32.526	1.00	63.15
2372	N	ARG	I A	328	14.520	5.936	32.040	1.00	61.76
2373	CA	ARG	A	328	15.101	6.250	30.671	1.00	59.76
2374	C	ARG	A	328	16.033	5.564	30.233	1.00	60.32
2375	0	ARG	A	328	13.764	4.609	32.025	1.00	62.86
2376	CB	ARG	 ^ 	328	12.866	4.373	30.827	1.00	64.26
2377	CG	ARG	A	328	11.855	3.269	31.095	1.00	65.68
2378	CD	ARG	A	328	11.950	2.167	30.144	1.00	66.47
2379	NE C	ARG	A	328	11.064	1.187	30.020	1.00	66.85
2380	l cz	ARG		1 320		1			

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2201	NHI	ARG	A	328	9.983	1.158	30.792	1.00	67.11
2381	NH2	ARG	A	328	11.246	0.229	29.119	1.00	67.06
2383	N	VAL	Α	329	14.570	7.262	29.985	1.00	56.58
2384	CA	VAL	A	329	15.070	7.594	28.651	1.00	51.13
2385	C	VAL	A	329	16.235	8.569	28.713	1.00	50.77
2386	0	VAL	Α	329	16.259	9.466	27.740	1.00	52.48
2387	СВ	VAL	Α	329	13.964	8.144	28.160	1.00	51.82
2388	CGI	VAL	Α	329	13.541	9.544 8.119	26.284	1.00	51.86
2389	CG2	VAL	Α	329	14.411	8.350	27.844	1.00	48.78
2390	N	LEU	Α	330	18.386	9.205	27.748	1.00	46.67
2391	CA	LEU	A	330	18.182	10.298	26.701	1.00	45.85
2392	C	LEU	Α	330	17.791	10.038	25.560	1.00	45.82
2393	0	LEU	A	330	19.627	8.379	27.404	1.00	46.55
2394	CB	LEU	A	330	20.032	7.297	28.410	1.00	46.63
2395	CDI	LEU	A	330	21.221	6.501	27.896	1.00	46.07
2396	CD2	LEU	A	330	20.345	7.902	29.769	1.00	45.97
2397	N N	VAL	A	331	18.358	11.547	27.118	1.00	43.84
2399	CA	VAL	A	331	18.211	12.702	26.266	1.00	42.46
2400	C	VAL	Α	331	19.460	13.580	26.316	1.00	41.99
2401	0	VAL	Α	331	19.603	14.358	27.267	1.00	42.13
2402	СВ	VAL	A	331	17.022	13.610	25.519	1.00	41.88
2403	CGI	VAL	Α	331	16.686	14.548	27.111	1.00	41.37
2404	CG2	VAL	A	331	15.797	12.845	25.269	1.00	41.05
2405	N	SER	A	332	20.281	14.534	25.294	1.00	39.11
2406	CA	SER	 ^	332	21.423	15.492	24.113	1.00	38.45
2407	C	SER	A	332	20.643	15.253	23.151	1.00	38.77
2408	0	SER	A	332	22.754	13.797	25.309	1.00	38.87
2409	CB	SER	Â	332	22.976	13.032	24.140	1.00	38.04
2410	OG N	SER	Â	333	22.152	16.557	24.185	1.00	37.37
2411	CA	SER	A	333	22.327	17.480	23.081	1.00	35.80
2412	C C	SER	A	333	23.808	17.578	22.713	1.00	35.02
2414	0	SER	A	333	24.608	18.160	23.448	1.00	34.17 35.80
2415	СВ	SER	Α	333	21.803	18.883	23.391	1.00	34.77
2416	OG	SER	A	333	22.173	19.787	22.353	1.00	33.66
2417	N	THR	A	334	24.153	17.125	21.031	1.00	32.68
2418	CA	THR	A	334	25.523	17.226 18.626	20.566	1.00	31.79
2419	С	THR	A	334	25.890 27.042	18.855	20.175	1.00	32.24
2420	0	THR	A	334	25.794	16.248	19.874	1.00	33.55
2421	СВ	THR	A	334	24.632	16.210	19.035	1.00	35.08
2422	OGI	THR	A	334	26.091	14.854	20.395	1.00	33.98
2423	CG2	LYS	1A	335	24.966	19.571	20.620	1.00	29.86
2424	CA	LYS	Â	335	25.130	20.954	20.255	1.00	28.11
2425	C	LYS	A	335	25.909	21.722	21.323	1.00	28.33
2427	0	LYS	A	335	26.403	22.833	21.112	1.00	28.49
2428	CB	LYS	A	335	23.766	21.632	20.065	1.00	27.41
2429	CG	LYS	A	335	22.985	21.211	18.848	1.00	25.45
2430	CD	LYS	Α	335	21.797	22.117	18.573	1.00	24.18
2431	CE	LYS	Α	335	21.096	21.719	17.274	1.00	22.35
2432	NZ	LYS	Α	335	20.513	20.357	22.485	1.00	27.13
2433	N	SER	_ A	336	26.063 26.898	21.586	23.553	1.00	26.20
2434	CA	SER	_ A	336	28.357	21.541	23.098	1.00	25.15
2435	С	SER		336	29.092	22.541	23.491	1.00	24.26
2436	10_	SER	- A	336	26.778	20.723	24.803	1.00	26.48
2437	CB	SER	1.	336	26.951	19.355	24.499	1.00	26.89
2438	OG	SER	A	337	28.738	20.692	22.253	1.00	24.47
2439	N CA	MET	A	337	30.088	20.611	21.733	1.00	25.03
2440	CA	MET	A	337	30.227	21.244	20.352	1.00	25.59
2441	- c -	MET	A	337	31.126	22.030	20.063	1.00	27.27
2442	CB	MET	A	337	30.505	19.123	21.646	1.00	23.76
2443	CG	MET	Â	337	30.336	18.420	22.987	1.00	22.85
2444	SD	MET	Â	337	30.647	16.670	22.961	1.00	22.05
	ענו	14177			29.019	15.966	22.795	1.00	20.77
2445	CF	MET	I A	337	29.019		_	1.00	24.03
2445 2446 2447	CE N	THR	A	337	29.335 29.336	20.877	19.481 18.043	1.00	24.93 24.13



B	THR THR THR THR THR THR GLY GLY GLY HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	A A A A A A A A A A A A A A A A A A A	338 338 338 338 338 339 339 339	28.770 29.244 28.506 29.316 27.262 27.753 27.098 25.883 25.688 25.078 23.911 24.257 24.500	22.406 23.073 19.864 18.985 20.277 22.870 24.144 23.812 22.635 24.779 24.536 24.569	17.637 16.706 17.512 16.726 16.790 18.368 18.051 17.178 16.865 16.805 15.968 14.493	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	24.84 25.40 23.52 22.42 23.55 24.13 21.84 21.27 21.79 20.63 21.54
B	THR THR THR GLY GLY GLY HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	A A A A A A A A A A A A A A A A A A A	338 338 338 339 339 339 339 340 340 340 340 340	28.506 29.316 27.262 27.753 27.098 25.883 25.688 25.078 23.911 24.257 24.500	19.864 18.985 20.277 22.870 24.144 23.812 22.635 24.779 24.536	17.512 16.726 16.790 18.368 18.051 17.178 16.865 16.805	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	23.52 22.42 23.55 24.13 21.84 21.27 21.79 20.63 21.54
B	THR THR THR GLY GLY GLY HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	A A A A A A A A A A A A A A A A A A A	338 338 339 339 339 339 340 340 340 340 340	29.316 27.262 27.753 27.098 25.883 25.688 25.078 23.911 24.257 24.500	18.985 20.277 22.870 24.144 23.812 22.635 24.779 24.536	16.726 16.790 18.368 18.051 17.178 16.865 16.805 15.968	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.42 23.55 24.13 21.84 21.27 21.79 20.63 21.54
G1	THR THR GLY GLY GLY GLY HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	A A A A A A A A A A A A A A A A A A A	338 338 339 339 339 339 340 340 340 340 340	27.262 27.753 27.098 25.883 25.688 25.078 23.911 24.257 24.500	20.277 22.870 24.144 23.812 22.635 24.779 24.536	16.790 18.368 18.051 17.178 16.865 16.805 15.968	1.00 1.00 1.00 1.00 1.00 1.00	23.55 24.13 21.84 21.27 21.79 20.63 21.54
G2	THR GLY GLY GLY GLY HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	A A A A A A A A A A A A A A A A A A A	338 339 339 339 339 340 340 340 340 340	27.753 27.098 25.883 25.688 25.078 23.911 24.257 24.500	22.870 24.144 23.812 22.635 24.779 24.536	18.368 18.051 17.178 16.865 16.805 15.968	1.00 1.00 1.00 1.00 1.00 1.00	24.13 21.84 21.27 21.79 20.63 21.54
A C C C C C C C C C C C C C C C C C C C	GLY GLY GLY GLY HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	A A A A A A A A A A A A A A A A A A A	339 339 339 339 340 340 340 340 340 340	27.753 27.098 25.883 25.688 25.078 23.911 24.257 24.500	24.144 23.812 22.635 24.779 24.536	18.051 17.178 16.865 16.805 15.968	1.00 1.00 1.00 1.00 1.00	21.84 21.27 21.79 20.63 21.54
A C C C C C C C C C C C C C C C C C C C	GLY GLY GLY HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	A A A A A A A A A A A A A A A A A A A	339 339 339 340 340 340 340 340 340	27.098 25.883 25.688 25.078 23.911 24.257 24.500	24.144 23.812 22.635 24.779 24.536	17.178 16.865 16.805 15.968	1.00 1.00 1.00 1.00	21.27 21.79 20.63 21.54
CA CA CA CA CA CA CA CA CA CA CA CA CA C	GLY GLY HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	A A A A A A A A A A A A A A A A A A A	339 339 340 340 340 340 340 340	25.883 25.688 25.078 23.911 24.257 24.500	23.812 22.635 24.779 24.536	16.865 16.805 15.968	1.00 1.00 1.00	21.79 20.63 21.54
CA	GLY HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	A A A A A A A	339 340 340 340 340 340 340	25.688 25.078 23.911 24.257 24.500	22.635 24.779 24.536	16.805 15.968	1.00 1.00	20.63 21.54
EA EB EG HD1 ED2 EE1 WE2 N EA	HIS HIS HIS HIS HIS HIS HIS HIS HIS	A A A A A A A A A A A A A A A A A A A	340 340 340 340 340 340	25.078 23.911 24.257 24.500	24.779 24.536	16.805 15.968	1.00	21.54
CA CB CG CD CD CD CE I CD CC CE I CC CA CC CC CC CC CC CC CC CC CC CC CC	HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	A A A A A	340 340 340 340 340	23.911 24.257 24.500	24.536	15.968	1.00	21.54
CB CG JD1 CD2 CE1 VE2 N	HIS HIS HIS HIS HIS HIS	A A A A	340 340 340 340	24.257 24.500				
CB CB CG ID1 CD2 CE1 VE2 V	HIS HIS HIS HIS HIS	A A A	340 340 340	24.500	24.307			21.15
CB CG VD1 CD2 CE1 VE2 V	HIS HIS HIS HIS	A A A	340 340		25.668	13.973	1.00	21.62
CG VD1 CD2 CE1 VE2 V	HIS HIS HIS	A A	340			16.248	1.00	23.15
ID1 CD2 CE1 NE2 N	HIS HIS HIS	A		22.858	25.630	15.873	1.00	24.70
CD2 CE1 VE2 VCA	HIS HIS			21.477	25.188		1.00	25.46
NE2	HIS	Δ .	340	21.254	24.220	14.915	1.00	24.88
NE2 N			340	20.258	25.566	16.319		25.60
N CA	HIS	Α	340	19.955	24.014	14.797	1.00	
CA		A	340	19.332	24.819	15.640	1.00	25.55
CA	LEU	Α	341	24.136	23.463	13.765	1.00	21.78
	LEU	Α	341	24.425	23.446	12.332	1.00	21.51
_	LEU	Α	341	23.246	23.864	11.455	1.00	20.67
5	LEU	A	341	23.264	23.596	10.245	1.00	20.80
CB	LEU	Α	341	24.939	22.111	11.840	1.00	22.08
G	LEU	A	341	26.253	21.519	12.279	1.00	23.06
CDI	LEU	A	341	27.036	20.962	11.093	1.00	22.21
				27,124	22.487	13.058	1.00	23.72
					24.517	12.005	1.00	19.56
						11.221	1.00	18.26
$\overline{}$						10.240	1.00	18.01
							1.00	18.33
								17.17
								16.80
								16.76
CDI							+	17.23
CD2								16.41
N	GLY						+	15.90
CA	GLY	Α						17.08
c 1	GLY	Α						18.05
0	GLY	Α		-				17.39
N	ALA	Α						18.18
CA	ALA	Α						19.20
С	ALA	A	344					
0	ALA	A	344					20.60
СВ	ALA	Α	344	24.297				18.23
N	ALA	A	345	22.134				19.41
CA	ALA	A	345	21.900	19.977	12.300		19.17
c		A	345	21.211	18.626	12.284	1.00	19.03
0			345	21.746	17.655	12.825	1.00	19.54
			345	21.118	20.990	13.127	1.00	19.37
				20.031	18.481	11.700	1.00	19.05
				19.302	17.240	11.616	1.00	18.25
						10.895	1.00	18.83
						11.171	1.00	18.01
0							1.00	19.83
N							1.00	21.04
CA								22.71
C								23.84
0								19.88
CB	ALA	A						21.96
N	VAL	Α						22.97
CA	VAL	Α	348					
C	VAL	A	348	24.116				24.48
0	VAL	Α	348	24.481	13.283	12.973	1.00	24.55
СВ	VAL	A	348	25.723	16.226	11.966	1.00	22.43
CGI	VAL	A	348	26.341	16.954	10.786	1.00	20.44
	VAL	A	348	25.108	17.219	12.947	1.00	22.09
CG2	GLU	A	349	23.120	14.982	13.349	1.00	26.69
CG2	1 020			22.474	14.348	14.490	1.00	29.09
N CA	GLU	A	349			1 17.470	1.00	
	ED2 I EA E D D CB CCB CCD I CDD CCA CCB CCB CCB N CCA CCB N CCA CCB N CCA CCB N CCA CCB N CCA CCB N CCA CCB N CCA CCB N CCA CCB N CCA CCB N CCA CCB N CCA CCB N CCA CCB N CCA CCB CCB	ID2	TOP	The color of the	The color of the	The color of the	LEU	LEU

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2517		GLU	A	349	21.603	12.239	15.125	1.00	29.84
2518		GLU	Α	349	21.503	15.364	15.131	1.00	30.54
2519		GLU	Α	349	22.309	16.556	15.629	1.00	33.46
2520		GLU	Α	349	21.540	17.774	16.041	1.00	35.00
2521		GLU	A	349	20.333	17.684	16.369	1.00	
2522		GLU	A	349	22.176	18.863	16.064	1.00	36.57
2523	N	SER	Α	350	21.411	12.764	12.952	1.00	35.08
2524	CA	SER	Α	350	20.905	11.481	12.516	1.00	29.09
2525	С	SER	A	350	22.049	10.458	12.529	1.00	28.77
2526	0	SER	Α	350	21.839	9.297	12.841	1.00	29.04
2527	CB	SER	Α	350	20.348	11.539	11.089	1.00	29.05
2528	OG	SER	_ A	350	19.043	12.076	11.069	1.00	28.76
2529	N	ILE	_ A	351	23.246	10.918	12.176		28.97
2530	CA	ILE	Α	351	24.426	10.066	12.186	1.00	28.95
2531	С	ILE	A	351	24.801	9.724	13.627		29.01
2532	0	ILE	A	351	25.060	8.551	13.918	1.00	29.32
2533	CB	ILE	A	351	25.611	10.703	11.453	1.00	29.82
2534	CG1	ILE	Α	351	25.423	10.556	9.941	1.00	28.57
2535	CG2	ILE	A	351	26.940	10.091	11.861	1.00	28.77
2536	CD1	ILE	Α	351	26.265	11.488	9.099	1.00	28.44
2537	N	TYR	A	352	24.714	10.695	14.530	1.00	28.88
2538	CA	TYR	A	352	25.000	10.452	15.938	1.00	28.96
2539	C	TYR	A	352	24.004	9.479	16.562	1.00	29.99
2540	0	TYR	A	352	24.407	8.671		1.00	30.75
2541	CB	TYR	A	352	25.012	11.723	17.391	1.00	32.84
2542	CG	TYR	Α	352	25.850	12.864	16.779	1.00	28.66
2543	CDI	TYR	A	352	25.545	14.168	16.269	1.00	26.47
2544	CD2	TYR	A	352	26.948	12.650	16.639	1.00	26.55
2545	CEI	TYR	A	352	26.313	15.236	15.451	1.00	25.98
2546	CE2	TYR	A	352	27.708	13.705	16.196	1.00	26.27
2547	CZ	TYR	A	352	27.385	14.991		1.00	26.13
2548	ОН	TYR	Α	352	28.157	16.019	15.359	1.00	25.70
2549	N	SER	A	353	22.744	9.528	14.896	1.00	25.41
2550	CA	SER	A	353	21.742	8.592	16.167	1.00	31.38
2551	С	SER	A	353	21.926	7.201	16.666	1.00	32.24
2552	0	SER	Α	353	21.565	6.189	16.064	1.00	32.63
2553	CB	SER	A	353	20.337	9.125	16.385	1.00	32.93
2554	OG	SER	A	353	20.266	10.510	16.706	1.00	32.06
2555	N	ILE	Α	354	22.497	7.136		1.00	32.40
2556	CA	ILE	A	354	22.761	5.860	14.866	1.00	31.79
2557	C	ILE	A	354	23.987	5.200	14.844	1.00	31.51
2558	0	ILE	A	354	23.951	4.012	15.168	1.00	32.97
2559	CB	ILE	Α	354	22.935	6.018	12.703	1.00	33.27
2560	CG1	ILE	Α	354	21.576	6.159	12.009	1.00	29.87
2561	CG2	ILE	A	354	23.698	4.848	12.116	1.00	29.52
2562	CDI	ILE	Α	354	21.606	6.908	10.688	1.00	30.35
2563	N	LEU	A	355	25.055	5.970	15.066	1.00	27.41
2564	CA	LEU	A	355	26.290	5.432	15.639	1.00	33.53
2565	С	LEU	A	355	26.082	4.959	17.072	1.00	33.26
2566	0	LEU	Α	355	26.622	3.935	17.510	1.00	33.69
2567	CB	LEU	Α	355	27.439	6.436	15.553	1.00	32.84
2568	CG	LEU	Α	355	27.931	6.753	14.130		32.20
2569	CD1	LEU	Α	355	28.833	7.978	14.145	1.00	31.40
2570	CD2	LEU	Α	355	28.643	5.566	13.506	1.00	31.15
2571	N	ALA	Α	356	25.232	5.673	17.809	1.00	29.67
2572	CA	ALA	Α	356	24.883	5.298	19.175		33.95
2573	C	ALA	A	356	24.327	3.879	19.202	1.00	34.20
2574	0	ALA	Α	356	24.632	3.095	20.103	1.00	35.31
2575	CB .	ALA	A	356	23.883	6.300	19.720	1.00	35.75
2576	N	LEU	A	357	23.556	3.497		1.00	33.94
2577	CA	LEU	A	357	23.049	2.136	18.178	1.00	36.14
2578	С	LEU	A	357	24.201	1.160	18.063	1.00	36.56
2579	0	LEU	A	357	24.258	0.103	17.855	1.00	37.61
2580	СВ	LEU	A	357	22.020	2.012	18.490	1.00	39.13
2581	CG	LEU	Ā	357	20.692	2.753	16.933	1.00	35.23
2582	CDI	LEU	A	357	19.880	2.899	17.197	1.00	34.83
2583	CD2	LEU	A	357	19.892	2.060	15.923	1.00	33.45
2584	N	ARG	A	358	25.135	1.515	18.281 16.982	1.00	33.22
						1.010	10.902	1.00	37.51

				0/	///				
2585	CA	ARG	A	358	26.271	0.683	16.685	1.00	37.58
2586	С	ARG	A	358	27.129	0.376	17.910	1.00	38.26
2587	0	ARG	A	358	27.577	-0.751	18.097	1.00	39.24
2588	СВ	ARG	A	358	27.197	1.380	15.656	1.00	37.33
2589	CG	ARG	Α	358	28.337	0.451	15.242	1.00	37.76
2590	CD	ARG	Α	358	29.272	1.085	14.228	1.00	37.44
2591	NE	ARG	A	358	30.034	2.160	14.848	1.00	38.18
2592	CZ	ARG	A	358	30.884	2.965	14.221	1.00	38.70
2593	NHI	ARG	A	358	31.108	2.831	12.917	1.00	38.32
2594	NH2	ARG	A	358	31,479	3.932	14.919	1.00	38.15
2595	N	ASP	A	359	27.448	1.410	18.670	1.00	37.94
2596	CA	ASP	A	359	28.406	1.368	19.746	1.00	37.27
2597	c	ASP	A	359	27.808	1.313	21.132	1.00	38.02
2598	ō	ASP	Ā	359	28.521	1.217	22.136	1.00	37.65
		ASP	Ā	359	29.231	2.675	19.670	1.00	36.75
2599	CB		A	359	30.238	2.668	18.549	1.00	36.38
2600	CG	ASP			30.238	1.693	17.771	1.00	36.72
2601	ODI	ASP	A	359			18.460	1.00	36.33
2602	OD2	ASP	A	359	30.991	3.661	÷	+	
2603	N	GLN	A	360	26.491	1.483	21.216	1.00	38.96
2604	CA	GLN	A	360	25.810	1.516	22.509	1.00	39.05
2605	C	GLN	A	360	26.538	2.465	23.461	1.00	39.38
2606	0	GLN	A	360	26.698	2.168	24.643	1.00	39.53
2607	CB	GLN	A	360	25.660	0.130	23.099	1.00	39.41
2608	CG	GLN	A	360	24.973	-0.898	22.217	1.00	39.76
2609	CD	GLN	A	360	23.466	-0.769	22.178	1.00	40.29
2610	OEI	GLN	A	360	22.782	-0.477	23.159	1.00	39.32
2611	NE2	GLN	Α	360	22.893	-0.991	20.988	1.00	40.99
2612	N	ALA	Α	361	26.886	3.644	22.959	1.00	39.00
2613	CA	ALA	Α	361	27.461	4.728	23.751	1.00	38.72
2614	С	ALA	Α	361	26.683	6.012	23.442	1.00	38.04
2615	0	ALA	Α	361	26.357	6.270	22.275	1.00	38.26
2616	СВ	ALA	Α	361	28.937	4.883	23.455	1.00	38.95
2617	N	VAL	Α	362	26.325	6.779	24.460	1.00	35.95
2618	CA	VAL	Α	362	25.509	7.982	24.250	1.00	33.68
2619	С	VAL	Α	362	26.293	9.242	24.568	1.00	32.65
2620	0	VAL	Α	362	26.684	9.490	25.703	1.00	31.11
2621	CB	VAL	Α	362	24.215	7.874	25.077	1.00	33.18
2622	CG1	VAL	Α	362	23.575	9.209	25.387	1.00	32.96
2623	CG2	VAL	Α	362	23.209	6.988	24.346	1.00	32.67
2624	N	PRO	Α	363	26.535	10.050	23.534	1.00	32.66
2625	CA	PRO	Α	363	27.283	11.285	23.645	1.00	31.67
2626	С	PRO	Α	363	26.671	12.173	24.705	1.00	31.09
2627	0	PRO	Α	363	25.449	12.194	24.869	1.00	32.64
2628	CB	PRO	Α	363	27.199	11.941	22.285	1.00	32.07
2629	CG	PRO	A	363	26.641	10.940	21.360	1.00	32.96
2630	CD	PRO	Α	363	26.096	9.789	22.139	1.00	32.89
2631	N	PRO	Α	364	27.495	12.901	25.434	1.00	30.09
2632	CA	PRO	A	364	27.032	13.733	26.516	1.00	29.72
2633	С	PRO	A	364	26.553	15.120	26.123	1.00	29.59
2634	ō	PRO	A	364	26.782	15.591	25.016	1.00	28.83
2635	СВ	PRO	A	364	28.284	13.863	27.386	1.00	29.18
2636	CG	PRO	A	364	29.418	13.799	26.423	1.00	29.36
2637	CD	PRO	A	364	28.974	12.883	25.323	1.00	29.95
2638	N	THR	A	365	25.950	15.787	27.100	1.00	28.90
		· · · · ·	Ā	365	25.536	17.166	27.039	1.00	29.34
	I ('A	ITHE							
2639	CA	THR					27,909	1.00	29.33
2640	С	THR	Α	365	26.515	17.969	27.909 29.106	1.00	29.33
2640 2641	C 0	THR THR	A A	365 365	26.515 26.271	17.969 18.122	29.106	1.00	28.44
2640 2641 2642	C O CB	THR THR THR	A A A	365 365 365	26.515 26.271 24.119	17.969 18.122 17.418	29.106 27.589	1.00 1.00	28.44 30.33
2640 2641 2642 2643	C O CB OG1	THR THR THR THR	A A A	365 365 365 365	26.515 26.271 24.119 23.174	17.969 18.122 17.418 16.540	29.106 27.589 26.967	1.00 1.00 1.00	28.44 30.33 31.73
2640 2641 2642 2643 2644	C O CB OG1 CG2	THR THR THR THR THR	A A A A	365 365 365 365 365	26.515 26.271 24.119 23.174 23.680	17.969 18.122 17.418 16.540 18.864	29.106 27.589 26.967 27.360	1.00 1.00 1.00 1.00	28.44 30.33 31.73 29.24
2640 2641 2642 2643 2644 2645	C O CB OG1 CG2 N	THR THR THR THR THR ILE	A A A A A	365 365 365 365 365 365	26.515 26.271 24.119 23.174 23.680 27.654	17.969 18.122 17.418 16.540 18.864 18.366	29.106 27.589 26.967 27.360 27.362	1.00 1.00 1.00 1.00 1.00	28.44 30.33 31.73 29.24 29.73
2640 2641 2642 2643 2644 2645 2646	C O CB OG1 CG2 N CA	THR THR THR THR THR ILE ILE	A A A A A	365 365 365 365 365 366 366	26.515 26.271 24.119 23.174 23.680 27.654 28.650	17.969 18.122 17.418 16.540 18.864 18.366 19.040	29.106 27.589 26.967 27.360 27.362 28.203	1.00 1.00 1.00 1.00 1.00	28.44 30.33 31.73 29.24 29.73 30.00
2640 2641 2642 2643 2644 2645 2646 2647	C O CB OG1 CG2 N CA C	THR THR THR THR THR ILE ILE	A A A A A A A A	365 365 365 365 365 366 366 366	26.515 26.271 24.119 23.174 23.680 27.654 28.650 28.162	17.969 18.122 17.418 16.540 18.864 18.366 19.040 20.419	29.106 27.589 26.967 27.360 27.362 28.203 28.621	1.00 1.00 1.00 1.00 1.00 1.00	28.44 30.33 31.73 29.24 29.73 30.00 31.27
2640 2641 2642 2643 2644 2645 2646 2647 2648	C O CB OG1 CG2 N CA C O O	THR THR THR THR THR ILE ILE ILE	A A A A A A A	365 365 365 365 365 366 366 366	26.515 26.271 24.119 23.174 23.680 27.654 28.650 28.162 27.219	17.969 18.122 17.418 16.540 18.864 18.366 19.040 20.419 20.981	29.106 27.589 26.967 27.360 27.362 28.203 28.621 28.067	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	28.44 30.33 31.73 29.24 29.73 30.00 31.27 30.39
2640 2641 2642 2643 2644 2645 2646 2647 2648 2649	C O CB OG1 CG2 N CA C O CB	THR THR THR THR THR ILE ILE ILE ILE	A A A A A A A	365 365 365 365 365 365 366 366 366 366	26.515 26.271 24.119 23.174 23.680 27.654 28.650 28.162 27.219 30.025	17.969 18.122 17.418 16.540 18.864 18.366 19.040 20.419 20.981 19.120	29.106 27.589 26.967 27.360 27.362 28.203 28.621 28.067 27.528	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	28.44 30.33 31.73 29.24 29.73 30.00 31.27 30.39 29.07
2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650	C O CB OG1 CG2 N CA C O CB CGB	THR THR THR THR THR ILE ILE ILE ILE ILE	A A A A A A A A A	365 365 365 365 365 366 366 366 366 366	26.515 26.271 24.119 23.174 23.680 27.654 28.650 28.162 27.219 30.025 30.052	17.969 18.122 17.418 16.540 18.864 18.366 19.040 20.419 20.981 19.120 20.205	29.106 27.589 26.967 27.360 27.362 28.203 28.621 28.067 27.528 26.451	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	28.44 30.33 31.73 29.24 29.73 30.00 31.27 30.39 29.07 29.20
2640 2641 2642 2643 2644 2645 2646 2647 2648 2649	C O CB OG1 CG2 N CA C O CB	THR THR THR THR THR ILE ILE ILE ILE	A A A A A A A	365 365 365 365 365 365 366 366 366 366	26.515 26.271 24.119 23.174 23.680 27.654 28.650 28.162 27.219 30.025	17.969 18.122 17.418 16.540 18.864 18.366 19.040 20.419 20.981 19.120	29.106 27.589 26.967 27.360 27.362 28.203 28.621 28.067 27.528	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	28.44 30.33 31.73 29.24 29.73 30.00 31.27 30.39 29.07

					<u> </u>				
2653	l N	ASN	Α	367	28.785	20.975	29.652	1,00	32.72
2654	CA	ASN	Α	367	28.511	22.285	30.190	1.00	34.91
2655	C	ASN	Α	367	27.251	22.403	31.019	1.00	36.61
2656	0	ASN	A	367	26.871	23.504	31.450	1.00	36.20
2657	СВ	ASN	A	367	28.483	23.311	29.038	1.00	35.89
2658	CG	ASN	A	367	29.871	23.565	28.480	1.00	36.26
			A	367	30.866	23.259	29.146	1.00	37.27
2659	ODI	ASN				24.113	27.279	1.00	35.83
2660	ND2	ASN	Α	367	29.952				39.08
2661	I N	LEU	Α	368	26.596	21.297	31.326	1.00	
2662	CA	LEU	A	368	25.351	21.292	32.094	1.00	41.70
2663	C	LEU	Α	368	25.647	21.267	33.592	1.00	44.25
2664	0	LEU	Α	368	25.388	20.294	34.299	1.00	44.89
2665	СВ	LEU	Α	368	24.506	20.106	31.655	1.00	40.63
2666	CG	LEU	Α	368	23.160	19.841	32.309	1.00	40.11
2667	CDI	LEU	A	368	22.287	21.085	32.347	1.00	40.15
2668	CD2	LEU	A	368	22.447	18.702	31.590	1.00	38.98
				369	26.196	22.375	34.085	1.00	46.52
2669	N	ASP	A			22.493	35.460	1.00	48.49
2670	CA	ASP	<u> </u>	369	26.643			, 	
2671	C	ASP	Α	369	25.472	22.540	36.426	1.00	49.89
2672	0	ASP	Α	369	25.518	21.893	37.476	1.00	50.35
2673	СВ	ASP	Α	369	27.544	23.715	35.641	1.00	48.44
2674	CG	ASP	Α	369	28.783	23.682	34.769	1.00	48.89
2675	ODI	ASP	A	369	29.283	24.771	34.401	1.00	49.53
2676	OD2	ASP	Α	369	29.284	22.587	34.435	1.00	48.33
2677	N N	ASN	A	370	24.430	23.299	36.104	1.00	51.52
2678	CA	ASN	Ā	370	23.261	23.423	36.964	1.00	52.70
			A	370	21.951	23.438	36.185	1.00	53.77
2679	C	ASN		370	21.512	24.515	35.756	1.00	53.47
2680	0	ASN	Α				37.759		52.88
2681	СВ	ASN	Α	370	23.326	24.734		1.00	
2682	CG	ASN	Α	370	24.420	24.856	38.775	1.00	53.02
2683	ODI	ASN	Α	370	25.288	25.726	38.676	1.00	52.97
2684	ND2	ASN	A	370	24.419	23.967	39.766	1.00	53.88
2685	N	PRO	A	371	21.289	22.302	36.046	1.00	55.26
2686	CA	PRO	A	371	20.009	22.231	35.356	1.00	57.50
2687	С	PRO	Α	371	19.056	23.295	35.870	1.00	60.20
2688	ō	PRO	A	371	19.124	23.621	37.064	1.00	61.29
2689	СВ	PRO	A	371	19.481	20.849	35.667	1.00	56.46
	CG	PRO	Ā	371	20.611	20.064	36.190	1.00	56.02
2690				371	21.728	20.992	36.542	1.00	55.51
2691	CD	PRO	Α			23.849	35.029	1.00	63.07
2692	N	ASP	A	372	18.181		35.590	1.00	66.12
2693	CA	ASP	A	372	17.273	24.869			
2694	C	ASP	Α	372	16.119	24.159	36.301	1.00	67.48
2695	0	ASP	Α	372	15.977	22.938	36.253	1.00	67.01
2696	CB	ASP	A	.372	16.848	25.919	34.606	1.00	66.67
2697	CG	ASP	Α	372	16.102	25.455	33.384	1.00	67.57
2698	ODI	ASP	A	372	16.051	24.235	33.120	1.00	67.94
2699	OD2	ASP	A	372	15.548	26.313	32.657	1.00	67.93
2700	N	GLU	A	373	15.370	24.916	37.074	1.00	69.63
2701	CA	GLU	A	373	14.336	24.473	37.968	1.00	71.38
	C	GLU	Ā	373	13.674	23.139	37.710	1.00	71.44
2702					13.781	22.240	38.570	1.00	71.34
2703	0	GLU	A	373		25.573	38.067	1.00	72.68
2704	CB	GLU	Α	373	13.255				
2705	CG	GLU	Α	373	13.293	26.290	39.420	1.00	74.09
2706	CD	GLU	Α	373	11.900	26.805	39.766	1.00	75.02
2707	OEI	GLU	Α	373	11.719	28.038	39.754	1.00	75.05
2708	OE2	GLU	Α	373	11.025	25.946	40.020	1.00	75.57
2709	N	GLY	A	374	12.842	23.002	36.683	1.00	71.36
2710	CA	GLY	Α	374	12.019	21.821	36.531	1.00	71.79
2711	C	GLY	A	374	12.488	20.762	35.569	1.00	72.06
2712	0	GLY	A	374	11.663	19.944	35.116	1.00	72.74
					13.776	20.705	35.244	1.00	71.14
2713	N	CYS	A	375			34.302	1.00	70.11
2714	CA	CYS	A	375	14.273	19.700			
2715	С	CYS	A	375	14.845	18.495	35.029	1.00	69.27
2716	0	CYS	Α	375	16.026	18.445	35.367	1.00	69.95
2717	СВ	CYS	Α	375	15.295	20.356	33.373	1.00	70.22
2718	SG	CYS	Α	375	14.615	21.786	32.484	1.00	70.33
				376	14.003	17.492	35.257	1.00	67.38
1 2719	I N	I ASP	I A	1 370	1				
2719	CA	ASP ASP	A	376	14.353	16.293	35.989	1.00	65.40

				01	1110				
2721	С	ASP	Α	376	14.761	15.117	35.118	1.00	63.43
2722	0	ASP	Α	376	14.848	13.977	35.602	1.00	63.21
2723	СВ	ASP	A	376	13.144	15.872	36.851	1.00	66.52
	CG	ASP	A	376	11.940	15.452	36.031	1.00	67.35
2724				376	11.974	15.549	34.786	1.00	67.44
2725	ODI	ASP	A		10.925	15.017	36.628	1.00	67.75
2726	OD2	ASP	Α	376			33.820	1.00	60.30
2727	N	LEU	Α	377	14.953	15.337		1.00	56.65
2728	CA	LEU	Α	377	15.263	14.233	32.913		
2729	С	LEU	Α	377	16.745	13.893	32.912	1.00	54.35
2730	0	LEU	Α	377	17.586	14.727	33.248	1.00	54.22
2731	СВ	LEU	Α	377	14.804	14.587	31.496	1.00	56.05
2732	CG	LEU	Α	377	13.342	14.988	31.318	1.00	55.48
2733	CDI	LEU	Α	377	13.151	15.780	30.034	1.00	55.31
2734	CD2	LEU	A	377	12.450	13.755	31.324	1.00	55.45
	N N	ASP	A	378	17.072	12.669	32.518	1.00	51.50
2735			A	378	18.466	12.246	32.405	1.00	49.45
2736	CA	ASP			19.063	12.822	31.118	1.00	47.99
2737	C	ASP	Α	378			30.023	1.00	47.05
2738	0	ASP	Α	378	18.941	12.271			49.34
2739	CB	ASP	Α	378	18.579	10.724	32.418	1.00	
2740	CG	ASP	Α	378	19.988	10.196	32.572	1.00	48.74
2741	ODI	ASP	Α	378	20.188	8.963	32.538	1.00	48.13
2742	OD2	ASP	Α	378	20.931	11.003	32.733	1.00	49.41
2743	N	PHE	Α	379	19.757	13.945	31.255	1.00	46.19
2744	CA	PHE	Α	379	20.293	14.689	30.135	1.00	44.78
2745	c	PHE	A	379	21.708	14.267	29.762	1.00	44.38
2746	0	PHE	Ā	379	22.392	14.967	29.015	1.00	44.31
2747	СВ	PHE	Ã	379	20.289	16.185	30.455	1.00	44.27
			Â	379	18.959	16.872	30.410	1.00	43.99
2748	CG	PHE		379	18.592	17.747	31.419	1.00	43.84
2749	CDI	PHE	A			16.671	29.370	1.00	44.12
2750	CD2	PHE	A	379	18.069		31.397	1.00	43.77
2751	CEI	PHE	A	379	17.374	18.397			44.24
2752	CE2	PHE	Α	379	16.850	17.315	29.337	1.00	
2753	CZ	PHE	Α	379	16.497	18.184	30.358	1.00	43.96
2754	N	VAL	Α	380	22.144	13.120	30.252	1.00	43.74
2755	CA	VAL	A	380	23.491	12.604	30.043	1.00	42.47
2756	С	VAL	A	380	24.485	13.738	30.306	1.00	42.16
2757	0	VAL	A	380	25.133	14.254	29.412	1.00	41.83
2758	СВ	VAL	A	380	23.717	11.953	28.690	1.00	41.28
2759	CGI	VAL	A	380	25.002	11.135	28.721	1.00	40.26
	CG2	VAL	A	380	22.530	11.071	28.317	1.00	41.05
2760				381	24.545	14.148	31.578	1.00	42.27
2761	N	PRO	A	381	25.180	15.367	31.990	1.00	42.11
2762	CA	PRO	Α		26.599	15.644	31.608	1.00	41.67
2763	C	PRO	Α	381			31.118	1.00	43.27
2764	0	PRO	A	381	26.806	16.781			42.44
2765	CB	PRO	A	381	25.021	15.391	33.511	1.00	
2766	CG	PRO	A	381	23.830	14.555	33.781	1.00	42.72
2767	CD	PRO	Α	381	23.743	13.541	32.680	1.00	42.38
2768	N	HIS	Α	382	27.641	14.854	31.837	1.00	40.46
2769	CA	HIS	Α	382	28.972	15.361	31.463	1.00	40.21
2770	C	HIS	Α	382	29.808	14.418	30.635	1.00	41.00
2771	ō	HIS	A	382	30.612	14.846	29.797	1.00	39.92
2772	СВ	HIS	A	382	29.745	15.751	32.740	1.00	39.82
	CG	HIS	A	382	29.317	17.068	33.305	1.00	39.32
2773			Â	382	29.629	18.266	32.705	1.00	39.09
2774	NDI	HIS			28.543	17.367	34.375	1.00	39.39
2775	CD2	HIS	A	382			33.393	1.00	39.48
2776	CEI	HIS	A	382	29.086	19.250	34.413	1.00	39.23
2777	NE2	HIS	Α	382	28.422	18.738			
2778	N	GLU	A	383	29.706	13.118	30.916	1.00	42.14
2779	CA	GLU	Α	383	30.521	12.126	30.227	1.00	43.32
2780	С	GLU	Α	383	29.638	11.155	29.456	1.00	42.41
2781	0	GLU	A	383	28.503	10.903	29.847	1.00	41.73
2782	СВ	GLU	A	383	31.403	11.362	31.220	1.00	45.87
2783	CG	GLU	A	383	32.071	12.198	32.299	1.00	48.56
		GLU	A	383	33.412	12.759	31.859	1.00	50.99
2784	CD			383	34.217	12.003	31.260	1.00	51.92
2785	OE1	GLU	A		33.672	13.962	32.105	1.00	52.07
2786	OE2	GLU	Α	383				1.00	42.07
2787	N	ALA	A	384	30.166	10.620	28.357	1.00	41.28
2788	CA	ALA	Α	384	29.437	9.632	27.575	1.00	41.20

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2200	ć	ALA	Α	384	28.935	8.511	28.488	1.00	41.42
2789 2790	<u>C</u>	ALA	A	384	29.646	8.072	29.392	1.00	40.84
2790 2791	СВ	ALA	A	384	30.318	9.038	26.491	1.00	40.98
2792	N	ARG	A	385	27.719	8.050	28.221	1.00	41.17
2793	CA	ARG	A	385	27.134	6.969	28.987	1.00	41.16
2794	С	ARG	Α	385	27.155	5.663	28.204	1.00	43.05
2795	0	ARG	Α	385	26.740	5.612	27.048	1.00	41.25
2796	СВ	ARG	Α	385	25.688	7.287	30.128	1.00	41.15
2797	CG	ARG	Α	385	25.008	6.145	31.606	1.00	40.96
2798	CD	ARG	A	385	24.890	7.495	31.831	1.00	41.21
2799	NE	ARG	Α	385	23.866	8.720	32.233	1.00	41.50
2800	CZ	ARG	Α	385	24.175	9.016	32.428	1.00	41.34
2801	NHI	ARG	Α	385	25.455	9.609	32.418	1.00	42.12
2802	NH2	ARG	A	385	23.211	4.596	28.867	1.00	41.57
2803	N	GLN	Α	386	27.568	3.262	28.264	1.00	40.47
2804	CA	GLN	A	386	26.152	2.680	28.446	1.00	39.88
2805	C	GLN	Α	386	25.497	2.999	29.451	1.00	39.50
2806	0	GLN	Α	386 386	28.622	2.417	28.935	1.00	41.01
2807	CB	GLN	A	386	28.533	0.926	28.674	1.00	40.91
2808	CG	GLN	A	386	29.158	0.575	27.341	1.00	41.24
2809	CD	GLN	A	386	30.355	0.781	27.144	1.00	41.99
2810	OEI	GLN	A	386	28.338	0.075	26.430	1.00	41.97
2811	NE2	VAL	A	387	25.622	1.979	27.446	1.00	38.93
2812	N CA	VAL	A	387	24.293	1.392	27.543	1.00	38.54
2813	CA C	VAL	Ā	387	24.315	-0.048	27.017	1.00	38.79
2814	18	VAL	A	387	25.250	-0.473	26.346	1.00	38.11
2815 2816	СВ	VAL	A	387	23.166	2.146	26.817	1.00	37.66
2817	CGI	VAL	A	387	22.938	3.547	27.358	1.00	36.33
2818	CG2	VAL	A	387	23.414	2.193	25.311	1.00	37.03
2819	N	SER	Α	388	23.234	-0.770	27.273	1.00	39.59
2820	CA	SER	Α	388	23.106	-2.146	26.786	1.00	40.66
2821	C	SER	Α	388	21.701	-2.390	26.241	1.00	40.50
2822	0	SER	A	388	20.723	-1.842	26.761	1.00	41.01
2823	СВ	SER	Α	388	23.421	-3.127	27.922	1.00	41.76
2824	OG	SER	Α	388	23.601	-4.451	27.431	1.00	39.76
2825	N	GLY	Α	389	21.562	-3.180	25.192	1.00	41.14
2826	CA	GLY	Α	389	20.284	-3.503	24.114	1.00	41.70
2827	С	GLY	A	389	19.426	-2.359	24.235	1.00	41.06
2828	0	GLY	Α	389	18.189	-1.330	23.533	1.00	42.05
2829	N	MET	Α	390	19.265	-0.199	23.001	1.00	42.20
2830	CA	MET	A	390	18.906	-0.488	21.545	1.00	42.88
2831	C	MET	A	390	19.802	-0.610	20.705	1.00	42.82
2832	0	MET	A	390 390	20.065	1.080	23.159	1.00	41.46
2833	CB	MET	A	390	19.354	2.345	22.696	1.00	40.33
2834	CG	MET	I A	390	20.300	3.828	23.053	1.00	39.24
2835	SD	MET	A	390	21.765	3.567	22.063	1.00	37.25
2836	CE	MET	A	391	17.620	-0.654	21.248	1.00	43.99
2837	N CA	GLU	A	391	17.201	-1.001	19.892	1.00	46.08
2838	CA	GLU	A	391	16.864	0.206	19.024	1.00	45.41
2839		GLU	A	391	17.167	0.247	17.826	1.00	44.59
2840	CB	GLU	1A	391	16.005	-1.963	19.929	1.00	48.01
2841	CG	GLU	Â	391	16.255	-3.301	20.576	1.00	51.25
2842	CD	GLU	A	391	16.345	-4.482	19.632	1.00	53.60
	OEI	GLU	A	391	15.617	-4.540	18.607	1.00	54.36
2844	OE2	GLU	A	391	17.166	-5.391	19.930	1.00	54.27
2846	N	TYR	A	392	16.214	1.215	19.591	1.00	44.78
2847	CA	TYR	A	392	15.787	2.388	18.871	1.00	44.24
2848	l c	TYR	A	392	16.312	3.695	19.477	1.00	43.65
2849	0	TYR	A	392	16.257	3.870	20.701	1.00	43.45
2850	СВ	TYR	A	392	14.257	2.501	18.881	1.00	44.89
2851	CG	TYR	A	392	13.475	1.323	18.387	1.00	45.69
2852	CDI	TYR	A	392	12.942	0.403	19.287	1.00	46.27
2853	CD2	TYR	A	392	13.246	1.120	17.032	1.00	45.96
2854	CEI	TYR	A	392	12.202	-0.678	18.851	1.00	46.79
2855	CE2	TYR	A	392	12.515	0.037	16.588	1.00	46.86 47.26
	,				11.991	-0.857	17.499		

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2857	ОН	TYR	Α	392	11.240	-1.930	17.071	1.00	47.84
2858	N	THR	Α	393	16.527	4.677	18.599	1.00	41.43
2859	CA	THR	Α	393	16.763	6.049	18.998	1.00	40.27
2860	C	THR	Α	393	15.896	7.031	18.195	1.00	39.59
2861	Ö	THR	A	393	15.601	6.863	17.017	1.00	39.19
2862	СВ	THR	A	393	18.227	6.496	18.876	1.00	40.35
		THR	A	393	18.792	6.069	17.624	1,00	40.81
2863	OG1		A	393	19.062	5.964	20.019	1.00	39.93
2864	CG2	THR		394	15.488	8.104	18.846	1.00	39.00
2865	N	LEU	Α			9.169	18.264	1.00	38.29
2866	CA	LEU	Α	394	14.695			1.00	37.46
2867	С	LEU	Α	394	15.567	10.401	18.030		
2868	0_	LEU	Α	394	16.480	10.682	18.814	1.00	36.71
2869	CB	LEU	Α	394	13.533	9.523	19.189	1.00	39.52
2870	CG	LEU	Α	394	12.508	10.542	18.696	1.00	40.53
2871	CD1	LEU	A	394	11.158	9.876	18.456	1.00	40.54
2872	CD2	LEU	A	394	12.360	11.689	19.690	1.00	40.98
2873	N	CYS	A	395	15.300	11.120	16.940	1.00	36.66
2874	CA	CYS	A	395	16.095	12.310	16.628	1.00	35.56
		CYS	A	395	15.238	13.530	16.318	1.00	34.76
2875	<u>C</u>		A	395	14.505	13.532	15.328	1.00	34.93
2876	O CD	CYS		395	17.014	12.019	15.441	1.00	34.91
2877	CB	CYS	A	395	17.954	13.469	14.915	1.00	35.28
2878	SG	CYS	A			14.594	17.099	1.00	33.67
2879	N	ASN	Α	396	15.362		16.915	1.00	33.78
2880	CA	ASN	A	396	14.583	15.799		1.00	32.51
2881	C	ASN	Α	396	15.283	16.976	16.256		33.78
2882	0	ASN	A	396	16.488	17.152	16.339	1.00	+
2883	СВ	ASN	Α	396	14.115	16.318	18.292	1.00	35.61
2884	CG	ASN	Α	396	12.854	15.629	18.754	1.00	37.03
2885	ODI	ASN	Α	396	12.208	14.917	17.979	1.00	36.89
2886	ND2	ASN	Α	396	12.542	15.844	20.031	1.00	37.90
2887	N	SER	Α	397	14.501	17.847	15.645	1.00	31.24
2888	CA	SER	A	397	14.937	19.065	14.990	1.00	30.08
2889	С	SER	Α	397	13.728	19.999	14.871	1.00	29.36
2890	0	SER	Α	397	12.686	19.517	14.403	1.00	28.86
2891	СВ	SER	Α	397	15.460	18.847	13.579	1.00	29.66
2892	OG	SER	A	397	16.795	18.440	13.514	1.00	30.44
2893	N	PHE	A	398	13.798	21.220	15.377	1.00	28.10
2894	CA	PHE	A	398	12.630	22.116	15.262	1.00	28.51
	c	PHE	A	398	13.071	23.370	14.525	1.00	28.82
2895				398	14.295	23.555	14.417	1.00	30.86
2896	0	PHE	A -	398	12.006	22.417	16.613	1.00	28.54
2897	CB	PHE	A	398	11.817	21.230	17.522	1.00	28.25
2898	CG	PHE	A		12.295	21.264	18.818	1.00	28.38
2899	CDI	PHE	Α	398		20.084	17.096	1.00	27.71
2900	CD2	PHE	A	398	11.174		19.651	1.00	29.51
2901	CEI	PHE	Α	398	12.163	20.173	17.897		28.62
2902	CE2	PHE	A	398	11.073	18.976		1.00	
2903	CZ	PHE	Α	398	11.556	19.013	19.188	1.00	29.57
2904	N	GLY	Α	399	12.192	24.182	13.950	1.00	27.59
2905	CA	GLY	Α	399	12.635	25.341	13.198	1.00	26.19
2906	С	GLY	A	399	11.652	26.491	13.079	1.00	26.07
2907	0	GLY	A	399	10.445	26.378	13.285	1.00	25.91
2908	N	PHE	A	400	12.188	27.658	12.745	1.00	25.06
2909	CA	PHE	A	400	11.482	28.899	12.529	1.00	24.03
2910	c	PHE	A	400	10.259	28.629	11.651	1.00	24.31
2911	0	PHE	A	400	10.354	27.971	10.616	1.00	23.63
	СВ	PHE	A	400	12.387	29.922	11.850	1.00	24.14
2912		PHE	A	400	13.306	30.718	12.718	1.00	25.15
2913	CG			400	13.533	30.424	14.055	1.00	24.96
2914	CDI	PHE	A		13.974	31.813	12.170	1.00	25.57
2915	CD2	PHE	A	400		+	14.826	1.00	24.16
2916	CEI	PHE	A	400	14.385	31.188	12.940	1.00	25.43
2917	CE2	PHE	A	400	14.806	32.600			
2918	cz	PHE	Α	400	15.018	32.276	14.270	1.00	25.18
2919	N	GLY	Α	401	9.099	29.086	12.115	1.00	24.50
2920	CA	GLY	Α	401	7.842	28.848	11.405	1.00	23.46
2921	С	GLY	A	401	7.129	27.661	12.040	1.00	23.34
2922	ō	GLY	Α	401	6.228	27.052	11.467	1.00	22.92
2923	N	GLY	A	402	7.634	27.221	13.198	1.00	23.63
2924	CA	GLY	A	402	7.103	26.072	13.900	1.00	23.42
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2925	С	GLY	A	402	7.077	24.803	13.068	1.00	24.44
2926	0	GLY	A	402	6.208	23.954	13.285	1.00	24.84
2927	N	THR	A	403	8.060	24.585	12.203	1.00	24.96
2928	CA	THR	A	403	8.122	23.374	11.385	1.00	
2929	c	THR	A	403	8.923	22.313	12.123		25.60
2930	0	THR	Â	403				1.00	25.97
2931					10.091	22.525	12.445	1.00	26.03
	CB	THR	A	403	8.711	23.664	10.000	1.00	26.33
2932	OGI	THR	A	403	8.834	22.465	9.225	1.00	26.55
2933	CG2	THR	A	403	10.078	24.329	10.102	1.00	26.08
2934	N	ASN	_ A	404	8.267	21.206	12.481	1.00	26.32
2935	CA	ASN	_ A	404	8.883	20.161	13.278	1.00	25.93
2936	C	ASN	Α	404	9.004	18.827	12.553	1.00	26.08
2937	0	ASN	A	404	8.216	18.461	11.678	1.00	25.83
2938	CB	ASN	Α	404	8.105	19.908	14.575	1.00	26.10
2939	CG	ASN	Α	404	7.872	21.156	15.387	1.00	27.31
2940	ODI	ASN	A	404	8.801	21.721	15.968	1.00	27.66
2941	ND2	ASN	A	404	6.620	21.607	15.422	1.00	28.28
2942	N	GLY	A	405	10.005	18.064	12.990		
2943	CA	GLY	A	405				1.00	25.82
2944	c	GLY			10.265	16.759	12.411	1.00	27.49
2945	10		A	405	11.035	15.853	13.369	1.00	27.89
		GLY	A	405	11.823	16.310	14.199	1.00	28.48
2946	N CA	SER	A	406	10.834	14.555	13.213	1.00	26.92
2947	CA	SER	A	406	11.477	13.559	14.029	1.00	27.03
2948	C	SER	Α	406	11.774	12.300	13.211	1.00	28.11
2949	0	SER	A	406	10.962	11.914	12.365	1.00	28.49
2950	CB	SER	Α	406	10.563	13.146	15.182	1.00	27.63
2951	OG	SER	A	406	10.349	14.156	16.132	1.00	28.47
2952	N	LEU	A	407	12.897	11.661	13.493	1.00	28.14
2953	CA	LEU	A	407	13.261	10.416	12.830	1.00	29.52
2954	С	LEU	Α	407	13.559	9.328	13.861	1.00	30.74
2955	0	LEU	A	407	14.165	9.583	14.910	1.00	31.02
2956	СВ	LEU	A	407	14.464	10.657	11.925	1.00	29.92
2957	CG	LEU	A	407	14.168	11.373	10.595	1.00	30.15
2958	CDI	LEU.	A	407	15.461	11.704	9.874	1.00	28.71
2959	CD2	LEU	A	407	13.247	10.526	9.725	1.00	29.57
2960	N	ILE	A	408	13.073	8.116	13.633	1.00	
2961	CA	ILE	Ā	408	13.309	7.003	14.552		31.35
2962	C	ILE	A	408				1.00	31.21
2963	ō				14.199	5.975	13.852	1.00	32.25
		ILE	A	408	13.896	5.536	12.746	1.00	31.08
2964	CB	ILE	A	408	12.025	6.322	15.033	1.00	30.12
2965	CGI	ILE	A	408	11.353	7.157	16.132	1.00	29.79
2966	CG2	ILE	Α	408	12.305	4.920	15.557	1.00	29.58
2967	CDI	ILE	A	408	9.895	6.798	16.326	1.00	29.42
2968	N	PHE	A	409	15.284	5.614	14.523	1.00	34.35
2969	CA	PHE	A	409	16.214	4.642	13.950	1.00	36.66
2970	С	PHE	Α	409	16.134	3.342	14.724	1.00	38.51
2971	0	PHE	Α	409	15.690	3.343	15.874	1.00	38.95
2972	CB	PHE	Α	409	17.635	5.215	13.925	1.00	36.47
2973	CG	PHE	Α	409	17.789	6.215	12.808	1.00	36.23
2974	CD1	PHE	A	409	17.643	7.567	13.065	1.00	36.49
2975	CD2	PHE	A	409	17.991	5.788	11.505	1.00	35.84
2976	CEI	PHE	A	409	17.755	8.487	12.036	1.00	36.42
2977	CE2	PHE	A	409	18.093	6.696	10.475	1.00	36.01
2978	CZ	PHE	Ā	409	17.977	8.051	10.745	1.00	36.45
2979	N	LYS	Ā	410	16.465	2.241			+
2980	CA	LYS	Â	410	16.395	0.937	14.066	1.00	40.81
2981	C	LYS		410			14.720	1.00	42.76
2982	0		A		17.648	0.123	14.412	1.00	43.74
		LYS	A	410	18.141	0.139	13.281	1.00	42.97
2983	CB	LYS	A	410	15.147	0.184	14.279	1.00	43.67
2984	CG	LYS	A	410	15.072	-1.261	14.749	1.00	45.15
2985	CD	LYS	Α	410	13.842	-1.944	14.178	1.00	46.70
2986	CE	LYS	Α	410	13.728	-3.393	14.600	1.00	47.69
2987	NZ	LYS	Α	410	13.392	-3.506	16.051	1.00	48.43
2988	N	LYS	Α	411	18.133	-0.567	15.439	1.00	45.19
2989	CA	LYS	Ā	411	19.314	-1.409	15.301	1.00	47.01
2990	С	LYS	Α	411	18.931	-2.679	14.539	1.00	48.00
2991	0	LYS	A	411	17.858	-3.221	14.794	1.00	47.64
2992	СВ	LYS	Α	411	19.882	-1.782	16.661	1.00	47.51

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2993	CG	LYS	Α	411	21.236	-2.461	16.610	1.00	48.43
2994	CD	LYS	Α	411	21.829	-2.606	18.008	1.00	49.25
2995	CE	LYS	Α	411	21.660	-4.036	18.505	1.00	49.84
2996	NZ	LYS	Α	411	22.313	-4.225	19.835	1.00	50.37
2997	N	ILE	Α	412	19.767	-3.087	13.601	1.00	49.72
2998	CA	ILE	A	412	19.469	-4.274	12.799	1.00	51.86
2999	c	ILE	A	412	20.459	-5.392	13.085	1.00	52.16
	0	ILE	A	412	20.167	-6.540	12.754	1.00	52.95
3000			Ā	412	19.422	-3.917	11.307	1.00	53.06
3001	CB	ILE		412	18.129	-4.459	10.671	1.00	53.46
3002	CG1	ILE	A	412	20.640	-4.413	10.543	1.00	53.46
3003	CG2	ILE	Α			-3.896	9.278	1.00	53.36
3004	CD1	ILE	Α	412	17.892		13.639	1.00	52.95
3005	OXT	ILE	Α	412	21.521	-5.114	13.039	1.00	32.93
3006	ILE	Α	412	<u> </u>		27.000	14.020	1.00	42.62
3007	Cl	CER	Α	413	16.270	27.008	14.939	1.00	
3008	NI	CER	Α	413	15.405	28.001	15.549	1.00	43.68
3009	01	CER	Α	413	16.728	30.271	11.664	1.00	41.32
3010	C2	CER	Α	413	16.925	27.331	13.561	1.00	38.73
3011	O2	CER	Α	413	16.493	25.921	15.481	1.00	43.30
3012	C3	CER	Α	413	15.986	28.354	12.880	1.00	40.31
3013	O3	CER	Α	413	14.813	27.662	12.446	1.00	40.48
3014	C4	CER	Α	413	16.661	29.036	11.703	1.00	40.39
3015	C5	CER	Α	413	17.226	28.267	10.507	1.00	40.11
3016	C6	CER	A	413	17.265	29.232	9.297	1.00	39.90
3017	C7	CER	A	413	18.711	29.652	9.103	1.00	40.02
3018	C8	CER	A	413	19.383	29.404	7.982	1.00	39.25
3019	C9	CER	A	413	20.833	29.912	7.969	1.00	39.77
	C10	CER	A	413	20.766	31.443	7.867	1.00	39.44
3020		CER	A	413	21.590	32.160	8.641	1.00	39.99
3021	CII		A	413	21.550	33.685	8.529	1.00	40.81
3022	C12	CER		21.907	17.399	19.574	1.00	18.60	0
3023	10	нон	501		20.702	-2.438	1.00	24.78	ō
3024	0	НОН	502	21.318		19.940	1.00	34.45	0
3025	0	НОН	503	26.523	32.326		1.00	33.79	ō
3026	0	нон	504	28.449	30.874	3.017	·	18.32	ō
3027	0	НОН	505	24.668	28.038	4.445	1.00		 0
3028	0	нон	507	15.042	27.512	5.199	1.00	17.31	0
3029	0	нон	508	29.925	26.579	22.947	1.00	40.78	
3030	0	НОН	511	23.439	42.041	15.173	1.00	71.80	0
3031	0	нон	512	22.342	38.099	20.418	1.00	32.70	0
3032	0	НОН	516	10.030	4.324	6.316	1.00	46.02	0
3033	0	НОН	520	13.286	7.231	-11.806	1.00	52.47	0
3034	0	нон	600	4.344	28.171	14.312	1.00	34.33	0
3035	0	НОН	601	8.984	29.158	15.330	1.00	19.89	0
3036	0	НОН	602	23.826	20.969	14.788	1.00	27.55	0
3037	0	НОН	604	35.933	26.827	5.038	1.00	38.80	0
3038	10	нон	605	32.286	37.853	-6.692	1.00	46.37	0
3039	10	нон	606	3.089	3.720	8.561	1.00	61.24	0
3040	10	нон	607	16.239	-0.824	25.960	1.00	37.31	0
	0	нон	608	6.142	22.763	19.648	1.00	44.37	0
3041	6	нон	609	6.225	28.059	17.075	1.00	32.61	0
3042			611	32.315	7.695	30.119	1.00	51.98	O
3043	10	HOH		32.210	7.634	6.284	1.00	35.28	ō
3044	0	HOH	612		38.017	12.044	1.00	22.73	0
3045	0	HOH	613	17.070			1.00	37.36	Ö
3046	0	НОН	614	31.176	19.825	30.843	1.00	32.76	0
3047	0	нон	615	27.957	31.368	17.445		56.05	0
3048	10	нон	616	32.966	30.345	-2.158	1.00		0
3049	0	нон	618	11.323	-4.259	1.793	1.00	38.53	
3050	0	нон	620	26.925	5.604	-18.307	1.00	53.90	0
3051	0	нон	621	16.279	30.145	2.670	1.00	31.13	0
3052	0	НОН	622	38.595	8.716	10.273	1.00	46.13	0
3053	0	нон	623	33.582	26.804	8.900	1.00	21.60	0
3054	0	нон	624	21.151	45.870	-3.906	1.00	28.41	0
1 3034		НОН	625	23.504	29.447	25.903	1.00	17.43	0
	1 ()		1			-19.938	1.00	44.00	0
3055	10		626	26.368	1 1.822	•17.730		1 44.00	1_2_
3055 3056	0	нон	626	26.368	6.256			47.04	Ö
3055 3056 3057	0	нон	627	2.152	6.256	9.459	1.00	47.04	
3055 3056 3057 3058	0 0	HOH HOH	627 628	2.152 6.809	6.256 19.529	9.459 9.383	1.00	47.04 29.11	0
3055 3056 3057	0	нон	627	2.152	6.256	9.459	1.00	47.04	0

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3061	To	нон	631	18.721	20.451	10.277	1.00	22.11	0
3062	0	нон	632	31,228	24.084	23.545	1.00	32.43	0
	10	нон	634	39.583	12.746	19.869	1.00	49.30	0
3063	18	нон	635	25.064	38.355	18.750	1.00	31.27	0
3064		нон	636	28.974	33.743	-7.396	1.00	25.15	0
3065	0	нон	637	26.250	41.318	16.894	1.00	47.65	0
3066		нон	638	11.568	27.419	17.240	1.00	50.15	0
3067	1 <u>0</u> -	нон	639	18.706	-6.969	8.775	1.00	47.69	0
3068	0	нон	640	19.374	-8.885	10.540	1.00	90.15	0
3069	10-	HOH	641	22.107	-2.476	12.466	1.00	58.99	0
3070	0	нон	642	31.157	0.866	24.564	1.00	73.54	0
3071	10	нон	643	11.493	22.417	31.837	1.00	62.07	0
3072	10	HOH	644	20.933	16.056	-12.243	1.00	35.36	0
3073	0			15.004	40.860	22.656	1.00	47.29	0
3074	0	HOH	645		-8.745	9.506	1.00	93.19	0
3075	10	нон	646	16.452	-6.743	3.300	1.00	- /3.1/	+
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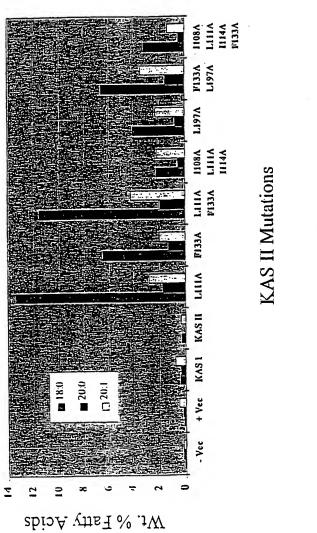


FIGURE 3

Acyl-ACP Substrates

FIGURE 4

Comparison of the Degreese in Activity On Submit 1230 Compared to 6405ACP

Reduction in Activity on 8:0-ACP

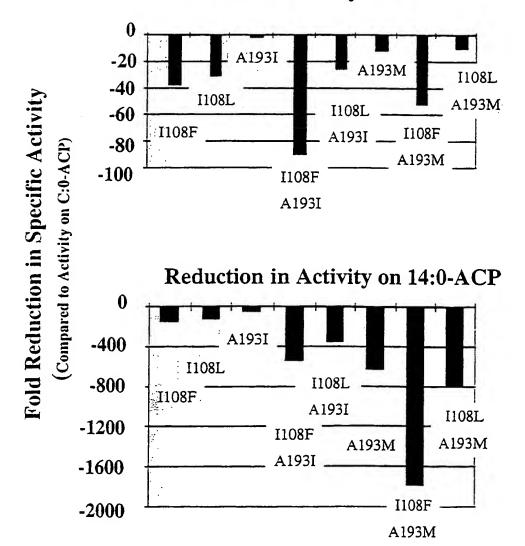


FIGURE 5

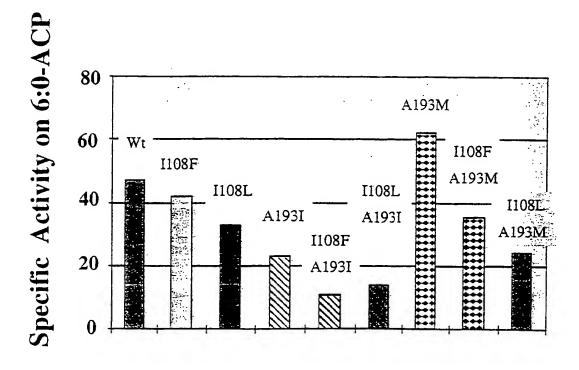


FIGURE 6

WO 00/75343 PCT/US00/16151

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Decreasing the Length	Increasing the Length
I108F	L111A
I108L	F133A
A193I	L111A, F133A
A193M	I108A, L111A, I114A
I108F, A193I	L197A
I108F, A193M	F133A, L197A
I108L, A193I	I108A, L111A, I114A, F133A, L197A
I108L, A193M	·



FIGURE 7

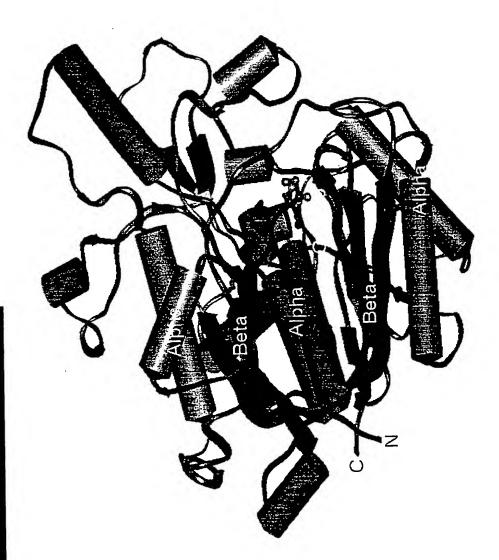


FIGURE 8



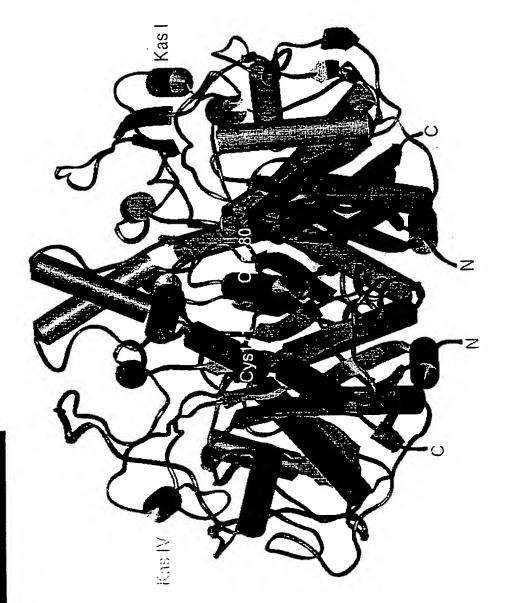


FIGURE 10

PCT/US00/16151

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E.coli	C.pu
Kas II	KAS IV
I108	M110
L111	M113
L113	V115
I114	F116
F133	C134
I138	T139
L197	I198
G203	V204

Sequence Differences in the Hydrophobic Pockets of *E.coli* KAS II and *C.pu* KAS IV

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	KFDASKFPTRIAGEIKSFSTDCY-IDPK
	10 20 30 40 50 60 70 80 90 100 110 120
At KASI.pro	ISAFDASKFPTRFGGQIRGKRVVIYCMGLVSVCGNDVDAYYEKILSGESGISLIDRFDASKFPTRFGGQIRGFSSEGY-IDGK 81
Br Kas 50.pro	ADSSAVSAPKRETDPRFSSEGVIOUTOMCLVSVFGNDVDAYYEKLLSGESGISLIDRFDASKFPTRFGQIRGFSSEGY-1DGK
	KLTLTKGNKSWSSTXVAAALELVDPPGCRNSARAGMGI/VSVFGSDVDSYYEKI/LSGESGISLIDRFDASKFPTRFGCQIRGFNATGY-IDGK 91
	RAA-FDEASHPETOPKKRVVITCMCL/JSVFGSFX/DAY/DKLL/SGESGTGPTDRFDASKFPTRFCCQIRGFDNSMGY-IDCK #0
	RAA-FDASKFPTRFAGQINGPNATGNVITGNGLVSVFGSDVDAYDKILLSGESGISLIDRFDASKFPTRFAGQINGFNATGY-IDGK 78
	FDASSFPTHFACQIRGFSSEGY-IDRRKRVVITCMCLASVFGSDVDTFYDRIAGESCVGPIDRFDASSFPTHFACQIRGFSSEGY-IDGK 15
	NNPDASKFPTREGOPRKRVVITGTGL/SVFGRD/DTYDKLLAGESGIGLIDRFDASKFPTRFGGQIKGPNSQGY-IDGK 79
Cc Kas.pro	FIDSSYTVRFACQIRDFSEGY-IDCK 70
Ch KAS IV-1.pro	KKK-FCAQFPTRIAGEIKSFSTWQFDCGW-VAPK 71
Ch KASIV.pro	NKFDCSGFPTRIAGEIKSFSTXQFSTDGW-VAPK7111XCISGISEIENFDCSGFPTRIAGEIKSFSTDGW-VAPK 71
Cpu KASIV.pro	KKFDCAQFPTRIAGEIKSFSTKQFTDGM-VAPICHDPDVFYNALLDGTSGISEIETFDCAQFPTRIAGEIKSFSTDGM-VAPK 71
Cw KASA-1.pro	KKK-CTQFPTRIAGEIKSFSTYGVPTGAGVVTPLGHEPDVFYNNLLDGVSGISEIETFDCTQFPTRIAGEIKSFSTTGA-VAPK 71
Cw KasA-2.pro	KKKFDCTQFPTRIAGEIKSFSTDGW-VTPLGHDPDVFYNAI,I,DCVSGISEIETFDCTQFPTRIAGEIKSFSTDGW-VAPK 71
HV KaSORF22 (KAS IN KKR	VKKR-FOCKP-TRIAGE VIOLATION OF THE STREET OF THE STREET OF THE STREET OF THE STREET WAS TELLED OF THE STREET
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RcKas46.pro	NKK-CAGFPTRIAGEIKSFSTDGW-VSPLGIIDIDVYYNNILDGSSGISGIDSFDCAGFPTRIAGEIKSFSTDGW-VAPK 71
Ce. KAS. PRO	MKLKINKNFEMHRVVITGMGAISPFGVTVNALRNGLNBGRSGLKYDEILKFVXGAVFGERVEDRNSTOQQREMSKASMFVLAAS 84
CEM. pro	MSRAVVITGLGCVTPLGESAGNILSSRAGLTSLESAGNILSSRAGLTPITSLPNYNEDYKLREKSIPSTITVGKIPENFQNENSAINKLLFTSQ 82
Ec KAS II.pro	FDTSAYATKFAGLANGFNCEDI-ISRX 66
Ec Kasl.pro	MLDTTGL-IDRK 63
M.tub.KasA.pro	MSQPSTANGG
M.tub.KasB.PRO	MCVPPLAGASRTDMECTFARPMTEL/JIGKAFPYVVVTGIAMTTALATDAETTWKLLLDRQSGIRTLDDPFVEEFDI.PVRIGGHI.LEEFDHQLTR1 95
Rat. Kas.PRO	YGLPKR-SGKLKDLSKFDASFQKLPESENLQEFWANLIGCVDWVTDDDRYGLPKR-SGKLKDLSKFDASFFGVHPK 79
RtNodE.pro	MDTDLYDLEGTYGLEIKARVVITGIGGLCGLGTNAASIWREAFREGPSAISPIITTDLYDLEGTYGLEIKAIP-EHDIPRK 64
StrepPolyk.pro	VNFIDATPFRSRIAMECH.SALVATREPLALSGTTATRAISTFDATPFRSRIAMECH.SALVATREF 65
SYN KAS.pro	FDASDQACRFGGEVKDFDATQF-LDRK 69
V.pro	SDYINIFINVKAVARPLFFCLFWRTSVANNRRVVITGLGIVSFVGNTVATAWEAIKSGISGIENIEHFDTTNFSTKFAGLVNDFDAESVGINRK 94

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GEADVALAGGSEA	260	ALIMMI AGGIVE	ADPIMIT AGGILEA	ADLMIAGGTE	ADLMIAGGTE	ADI MI AGGI'EJ	ADLMIAGGTE	ADI IVAGGTE	AELMIAGGTE	ADIMVAGGTD/	ADVALCGGSD	ADMITCGGSD	ADVMLCGGSD	ADMILCGGSD	ADVIMICOGSD	ADVMLCGGSD	TDIMICGGSD	ADIMLCGGSD	SRRALAGAVE	QDICVAGASE	ADVMVAGGAE	QDIVFACGGE	NADVAVCCGVE	SADAA I CGGVE	CPAAIVGGIN	NADVMLAGGSD	TVDAMVAGGVE	AKAMICGGTE	DADVMVAGGAE	
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LADAGVSPEDVNYINAHATSTPAGDLAEINAIKRV	310	LEDAGVSPEEVNYINAIATSTLAGDLAEINAIKKVFKSTS-GIKINATKSMIGICLGAAGGLEALATVKAINIGMJHPSINQFNPEQAVDFDT-VPNEKKQHEVNVAI 411 LEDAGVSPEEVNYINAIATSTLAGDLAEINAIKKVFKSTS-GIKINATKSMIGICLGAAGGLEAIATVKAINTGMJHPSINQFNPEPSVEFDT-VANKKQQHEVNVAI 310 LEDAGVSPEEVNYINAIATSTLAGDLAEINAIKKVFKYTK-DIKINATKSMIGICLGASGGLEAIATIKGINTGMJHPSINQFNPEPSVEFDT-VANKKQQHEVNVAI 310 LEDAGVSPEEVNYINAIATSTLAGDLAEINAIKKVFKYTK-BIKINATKSMIGICLGASGGLEAIATIKGINTGMJHPSINQFNPEPSVEFTT-VANKKQQHEVNVAI 410 LEDAGVSPEEVNYINAIATSTLAGDLAEINAIKKVFKYTK-BIKINATKSMIGICLGASGGLEAIATIKGINTGMJHPSINQFNPEPSVEFTT-VANKKQQHEVNVAI 410 LEDAGVSPEEVNYINAIATSTLAGDLAEINAIKKVFKYTK-BIKINATKSMIGICLGASGGLEAIATKGINTGMJHPSINQFNPEPSVDFNT-VANKKQQHEVNVAI 408	INDACAPEEDMYTNAINTSTLAGOLAEVTRINGY— KHES-EIKTINSTKSHIGIKCIGAAGGLEAIATIKSITTGWHIPTINGPHP EPSUPETT-VANIKA KQHENWOL 4001 LADGOVSPEEDMYTNAINTSTLAGOLAEVTRINGYF KHES-EIKTINGTKSHIGIKCIGASGCLEAIATIKATTGWHIPTINGPHP EPSUPETT-VANIKA CQHENWOL 1409 LADGOVSPEEDMYTNAINTSTLAGOLAEVARIKKYF	IADAGITADKVGYNNAKGTSTPAGDKAETAAVKSVFGEHAYTLAVSSTKSMTCHLLGAAGAIEAIFTILALKDQILPPTINLENPSEGCDLDYVTDGARPVN-MEYAL
		At KASI.pro Br Kas 50.pro Ch KAS I .pro Ch KASI-1.pro Cpu KASI-1.PRO cpuKASI-1.PRO	HE KAS 12. DE INDAGNAREENTY INAURTSTLAGOLAETRATKOPFKRIPS - EIKINSTKSHIGKLAAAGILEA IATTIKSTTTGANIHETINGENE	V.pro

SNSFGFGGINSSVAFAPFK--

r.g.r. 12-5

At KASI.pro	SNSFGFGGINSVVAFSAFK-P
Br Kas 50.pro	SNSFGFOGINSVVAFSAFK-P
Ch KAS I .pro	SNSFGFGGHNSVVAFSAFK-P
Ch KASI-1.pro	SNSFGFGGINSVVAFSAFK-P
Cpu KAS I.PRO	SNSFGFGCHINSVVAFSAFK-P
cpuKASI - 1 . PRO	SNSFGFGGINSVVAFSAFK-P
Hv Kas12.pro	SNSFGFGGINSVVVFAPFK-P
RcKas50.pro	SNSFGFTCHINSVVAFSAFK
Cc Kas.pro	SNSFGFGGHNSVVVFAPYK-P
Ch KAS IV-1.pro	SNSFGFGGHNSSILFAPYN
Ch KASIV.pro	SNSFGFGGINSSILFAPCN
Cpu KASIV.pro	SNSFGFGGINSSILFAPYI
Cw KASA-1.pro	SNSFGFGGINSSILFAPCN-V
Cw KasA-2.pro	SNSFGFGGHNSSILFAPCN
HV KaSORF22 (KAS	IN SNSFGFOGINSSILFAPFK
HV KaSORF25 (KAS	IN SNSFGFOGINSSILFAPF
RcKas46.pro	SNSFGFOGHNSSIIFAPYK
Ce.KAS.PRO	CNSFGFGATNASLILKQF.
CEM.pro	CNSFGFOGVNFSLLFKKWEGS
Ec KAS II.pro	CNSFGFGGTNGSLIF
Ec Kasl.pro	SNSFGFGGTNATLVMRKLK-D
M. tub. KasA. pro	NNSFGFOGINVALAFGRY
M. tub. KasB. PRO	NNSFGFGGHNVA I AFGRY
Rat. Kas. PRO	-NSFGFGGANVHVILQP-NAS
Rt NodE. pro	SNAFAMOGINAVLAFRQV
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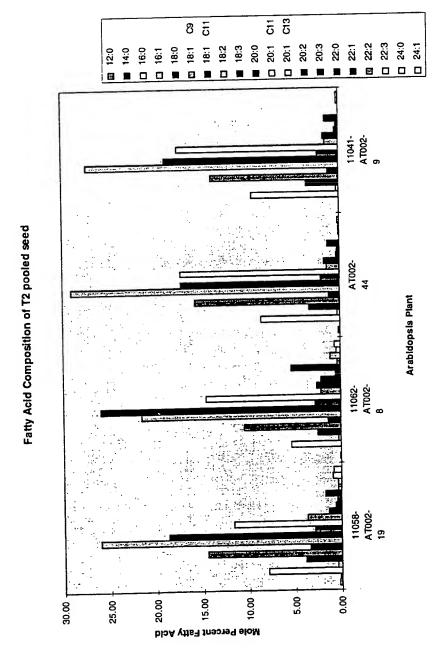


Figure 13

Bgl II site Sall site

Bgl II site

Figure 14